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REPORT

SEMERAL ROLLIT. HELST OF MY

OF THE

SELECT COMMITTEE

OF THE

HOUSE OF REPRESENTATIVES

OF MASSACHUSETTS,

ON SO MUCH OF THE GOVERNOR'S SPEECH, AT THE JUNE SESSION, 1830, AS RELATES TO

LEGALIZING THE STUDY OF ANATOMY:

REPORTED BY A SELECT COMMITTEE, CONSISTING OF

Messrs. J. B. DAVIS, of Boston,
G. WILLARD, of Uxbridge,
A. HUTCHINSON, of Pepperell,
L. W. HUMPHREYS, of Southwick,
J. B. FLINT, of Boston.

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NEW HAVEN:

PRESS OF WHITMORE AND MINOR,

No. 1, Marble Block, Chapel Street.

1833.

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As application is to be made to the legislature of Connecticut for an act to legalize the study of Anatomy, it is deemed expedient to re-publish the following learned and pertinent Report of a committee of the legislature of Massachusetts. The obstacles to the study of Anatomy in that state, previously to the modification of their laws, were similar to those now existing in this state. A candid perusal of the following document, it is thought, can hardly fail to produce a conviction that reason and humanity require a modification of our laws on this subject.

New Haven, April 30, 1833.

REPORT.

The subject committed to them, though it yield in importance to few that come within the scope of Legislative action, is besct with difficulties even in approximating a satisfactory, practical result. On the one side are the health, the safety of the limbs and lives of a whole community; on the other are encountered those strong prejudices, powerful associations, and earliest impressions of awe and reverence, for the repose of the dead, which are too strong to be conquered, too delightful to be despised, and too solemn and hallowed to be effaced.

Deeply impressed with these considerations, your committee have thought proper at this time to go into a full examination of the subject committed to them,—to look at it in all its aspects, and to present, not only the results, but the details of their researches and reasonings on it, with a hope of putting the Legislature in full possession not only of the views, which your committee entertain, but also of the routes by which they have proceeded,—the important considerations which are suggested, and the difficulties which are to be encountered.

Your Committee claim no other merit than that of a faithful compilation of the facts and reasonings of distinguished men, who have devoted their attention to this subject, and your Committee's object has been to arrange and to condense, what appears to them to have a proper bearing on the subject, so as to put it into the possession of all the members of the Legislature, or at least make it easily accessible to them.

Your Committee propose to consider:

I. The Risc and Progress of Anatomical Science:

II. Its indispensable importance to both great branches of the

Healing Art;—the practice of Medicine and Surgery:

III. The interest which society at large, especially, and the Medical Profession incidentally, have in the modification of the laws of this Commonwealth, so as to afford a reasonable facility for the pursuit of Anatomical Science:

IV. The Provisions, and the Character and Effect, of our present laws, regulating the practice of Physic, and for the protection of the

sepulchres of the dead:

V. The Provisions that have been made in France and other enlightened countries, for the promotion of Anatomical Science; and

VI. Present those conclusions, which the Committee recommend for Legislative sanction by legal enactments, with a view to like results in our enlightened Commonwealth.

I. The Science of Anatomy, like Astronomy, Botany, Chemistry, and other mixed Sciences, requiring the union of intellectual vigor and power with nicety of occular observation and manual skill, has grown through a lapse of successive ages, from small beginnings to

its present improved condition. But, although great progress and improvements have been achieved, much yet remains to be done. Though Newton, Linnæus, Lavoisier and Harvey have in their respective pursuits achieved lasting fame for themselves, and conferred the greatest benefits on the human race, still since their glorious careers have ended, much more has been added to the conquests of Science, and if proper encouragement be not withheld, we may expect in each branch that new discoveries will yet be made, extending the limits of the human intellect, and giving us new cause to admire, reverence and adore that Eternal and Infinite Wisdom, by which, both Man, the inferior animals, and inanimate Nature have been so wonderfully adapted to the purposes of their creation.

The early accounts of Anatomy are so mixed up with fable, that little or no reliance can be placed upon them. It no doubt existed

in an incipient state among the Egyptians.

In fact, from the earliest ages, as disease, infirmity and exposure to labor and suffering were the common lot of man;—Medicine and its most important auxiliary, Anatomy,—but in a rude, degraded, and uninviting condition, must have existed as the necessary incident of this condition of our race. When the savage chief Omai was in Dr. Hunter's Museum, although he had not the power of explaining himself, it was apparent, that he knew the principal parts of the human body and something likewise of their uses, and manifested a great desire of having the functions of the internal parts of the body explained to him. The poems of Homer show that some anatomical facts were known as early as his era.

The patriarch Joseph, we read, was embalmed and buried in Egypt. In the Old Testament there are other faint traces of resort to Anatomy, either for the relief of the suffering living, or for the purpose of resisting the common and inevitable decay of that mortal frame, around which the associations of the survivors were wont to eluster. But both by the Egyptians and Jews, and also by the Arabians, the persons, employed in opening dead bodies, were considered polluted, and it is recorded of the Egyptians that they even

stoned them, when they appeared in the public streets.

Their religious rites, as well as most of their principles of morals and government, were received by the Greeks from the Egyptians, Arabians, and other nations of the East, which were in a high state of civilization and improvement when Greece was yet immersed in barbarism and ignorance. Colonies from these nations landed in Greece and taught its native people the rudiments of the Arts, ceremonies of religion, habits of civilized life, and by degrees brought

them to submit to a regular form of Government.

In the earliest period of the history of Greece, the character of physician was often superadded to that of priest, and hence arose an idea very prevalent in all ages, and perhaps in all nations, however savage, of a sanctity appertaining to the practitioner of the Healing Art. This idea is known to be prevalent among most of the Aborigines of America, and also among other savage tribes in Africa and Asia. The pestilence, that was destroying the Grecian Army on the plains of Troy, could not be stayed till they had carried a sacred

hecatomb to Chryses, the priest of Apollo. In the religious system of the Greeks, in addition to their numerous oracles, they had an extensive system of Theomancy, consisting of divinations by dreams, sacrifices, birds, lots, and ominous words and things, and of magic and incantations. The study of divination by sacrifices necessarily led to the study of Anatomy of animals, for it consisted in making observations while killing and cutting up the victim. These observations were not confined to external appearances, but were extended to the entrails and internal organization, and as these were found healthy or diseased, whole or defective, so was an inference drawn and the prediction ventured, for good or ill.

The death of Alexander the Great was predicted by the sooth-sayer Pythagoras, because the victim's liver had no lobos,—and his favorite Hephaestion's death was forewarned by the same omen.

Cæsar's victory over Pompey was foretold, because

"Of the liver's heads one overgrown,

"And as 'twere squeez'd, was by the other down."

And Caracalla was warned to take care of himself, "because the gates of the liver were closed."

In all divinations by sacrifices, the liver was the first object, from an idea, if it were defective, the blood and whole system partook of its deficiency. But in addition to divination from the bodies of Animals, the Grecks practised a system of divination with the bodies of deceased persons, called Necromancy, which must have led to the study of the human Anatomy. It was sometimes performed by the use of a bone or vein of a dead body, or by pouring warm blood into an entire dead body, as it were to renew life in it.

Dum vocem defuncto in corpore quaerit, Protinus adstrictus caluit cruor, atraque fovit vulnera.

"While he seeks answers from the lifeless load,

"The congealed gore grows warm with reeking blood,

"And cheers each ghastly wound."

Hence the fables of Orpheus raising Eurydice from the shades, of Ulysses and of Eneas at lake Avernus in Campania, &c. &c. What a tribute to the value of Anatomical Science, that an early tradition of its use by a distinguished poet and philosopher, though lost in fable, should be, that he had successfully charmed back from the shades below the wife of his love?

It may be here remarked, that another species of the early Grecian Divination was called Pharmacy, which consisted in the use of certain medicated compositions of minerals, herbs, &c. Democritus and Pythagoras, both, in fact, eminent in their day as physicians, were skilled in this art. Suidas reports that the curing of distempers by sacrifices and the use of certain invocations, had been practised ever since the time of Minos, King of Crete; and Homer relates how Autolycus' sons stopped Ulysses wounds from bleeding by a charm:

With nicest care the skilful artist bound The brave Divine Ulysses' ghastly wound, And the incantations staunched the gushing blood. The same is observed by Pliny, who says, it was reported by Theophrastus that the Hip-Gout was eured in the same way: by Cato, that a charm would relieve any limb out of joint, and by Mareus Varro, that it would cure the gout in the feet. The famous leech, Chiron, is said to have used this remedy in some diseases but not in all; for he was in advance of his age.

It is undoubtedly true, that the same mixture of gross superstition with the earlier beginnings of medical skill, and the rudest attempts at its practice, have been witnessed in all ages and in the early his-

tory of almost all nations.

The importance of the Healing Art may be readily inferred, from the fact that in all ages and in the darkest shades of ignorance, man has ever practically recognized the Doetrine; "from the most High cometh healing," and to "God our Lord belong the issues from death."

Thucydides relates that, at the breaking out of the plague of Athens, the soldiers, finding their accustomed aid from the physicians failed, resorted for relief to the Soothsayers and Divines, and like principles of human action led to the defying of Esculapius and to many other fables with which the Grecian Theogony abounds.

To Pythagoras, one of the most eminent men that any age of the world has produced, belongs the honor of first cultivating the anatomy of animals. He taught that the blood nourished the body, that the arteries and veins were the vehicles of life, and laid the foundation, on which his pupils in after years were enabled to build.

Among these, were Alemacon, Anaxagoras, and Empedoeles. Democritus of Abdera possessed an independent character and an inquisitive mind. He was also in advance of the age in which he lived. He ridiculed unceasingly the follies of his fellow men, and this turn of disposition, aided by his love of dissection, gave him, among his cotemporaries, the reputation of being mad.

Hippocrates is a name so intimately associated with the early history of the healing art, as to have acquired the honorable adjunct

of the "Father of Physie."

His theories, however, are extravagant, wanting the only safe foundation for theory on any subject; a close observation of nature, and a rigid abstinence from imagination and fancy. He taught that there was one general principle called nature, possessed of intelligence and having virtues and powers, the servants of this principle, by which it performs all operations in the bodies of animals, distributes the blood, spirits and warmth to all parts of the animal frame, and gives them life and sensation. This principle attracts what is good or agreeable to each species, and rejects whatever is hurtful or useless, and he thus obtained the foundation of his theory of depuration, concoction, and crisis in fevers. When he explains what he means by nature, he resolves it into heat, which he says appears to have something immortal in it. Thus it would seem that our modern Steam and Lobelia Doctors have no claim to originality in their theory, for it is at least as old as the age of Hippocrates.

He was impressed with the importance and necessity of Anatomical Knowledge, and sought it, where the prejudices and ignorance of his age alone permitted him to seekit, among the decaying relies of

mortality in the grave yard. Though his theories were imaginary, he was a great observer of facts: and the eminent French physicians of the present day recur to Hippocrates as the greatest and

best of the authorities of antiquity.

Asclepiades was the opponent of Hippocrates. He taught that matter is unchangeable, that all bodies are composed of a number of small ones, called corpuseles, having between themselves a space called pores or interstices, devoid of matter—that the soul is composed of those corpuscles: that nature is nothing more than matter and motion: that Hippoerates knew not what he said when he spoke of nature as an intelligent being: that these corpuscles have different figures and arc differently arranged; that the pores or interstices are of different sizes; that the human body has pores peculiar to itself: that they are of different sizes according to the magnitude of the corpuseles that pass through them, and that the body consists of the largest and the spirits and animal heat of the smallest. maintained that so long as the corpuscles are freely received by the pores, the body remains in its natural state. On the contrary, that so soon as any obstacle obstructs their passage, it begins to recede from that state; therefore, that health depends on the just proportion between these pores and corpuseles: that discase proceeds from a disproportion between them: that the most usual obstacle arises from a retention of some of the eorpuselcs in their ordinary passages, where they arrive in too large a number, or are of irregular figures, or move too fast or too slow; that phrenzics or burning fevers are produced by the eorpuscles stopping of their own accord; that delirium, leanness, and dropsy derive their origin from the bad state of the pores; that hunger arises from the opening of large porcs of the stomach, thirst from the opening of the small porcs, &c. &c.

Soon after the era of these rival physicians, schools were established at Athens, in which anatomy of animals was made a part of the studies. The anatomical descriptions of Plato and Xenophon, the favorite disciples of Socrates, are often mentioned as specimens of fine writing. A passage is referred to in the writings of Plato, from which it is inferred that he must have had some imperfect conception of the greatest of all medical discoveries, the circulation of

the blood.

Aristotle, the philosopher of Stagira, whose fortune it was to establish a dominion over the human mind, far more extensive and lasting than his pupil Alexander, or the most ambitious conqueror of former or later periods, in the plenitude of his power, ever possessed over the external condition of man, is said first to have attended to the anatomy of the human frame; but some deny him this high praise, allowing him only the merit of immense labor for the science of comparative anatomy, and giving to his successors, Herophilus and Erisistratus, the honor of having first dissected the human body. In his scientific labors he was countenanced and assisted by his pupil Alexander the Great, whose mind to his great honor, it may be recorded, conquered and threw off the trammels of the prejudices of that period. The amount of patronage bestowed by Alexander on Aristotle, to enable him to prosecute his studies, was immense. I

is stated by several historians as high as between 100,000l. and 200,000l. sterling. Aristotle, when dying, is said to have uttered the following aspiration. It breathes the spirit of true piety and humility. It is, too, illustrative of this eminent philosopher's character:

"Faede hunc mundum intravi—anxius vixi—perturbatus egredior—causa causarum miserere mei."

"I entered this world in the humblest condition—I have lived a life of anxiety—I am now going out of the world in pain—Great

First Cause of all things have mercy upon me."

Forty years after Alexander's death, Herophilus appeared in Syria, where he was protected in the study of Anatomy by Dissection, by Seleucus. Eristratus also appeared in Egypt, where he was protected and encouraged in the same pursuit by Ptolemy Philadelphus.—Popular prejudices however were strong against such

pursuits.

The great mass of mankind were then debasingly ignorant; very few rose above the level, at which from the development of man's physical appetites, to the utter neglect of his high moral and intellectual attributes, he becomes merely the chief of the animal creation, instead of fulfilling his higher destiny of living not only for himself, but for the benefit of his posterity; and by daily improvement—of approximating nearer and nearer to the illustration on earth of the sublime truth, that God created man in his own image, and made him but "little lower than the angels."

They therefore then felt extremely jealous of these novel in-

quiries, prosccuted with zeal, under royal patronage and favor.

The idea was prevalent that their kings were searching for the principle of life, which found, they could secure to themselves exemption from the common lot of man, and flourish in continued youth, whether they lived for the good or ill of their subjects.

A school for medicine and anatomy was, however, established at Alexandria in Egypt, and notwithstanding these prejudices, flourished with varied success. It was the only source of medical and ana-

tomical knowledge till the decline of the Roman empire.

But little progress was made in anatomical science by the Romans. It is worthy of remark that civilization owes but little to these boasted conquerors, for any additions made by them to the dominion of either Art or Science.

In fact, so far from improving upon the Greeks, they were hardly able to learn and retain the excellence already achieved by them.

In Architecture, all their efforts served only to debase and degrade the simple and beautiful models, which the pure style of the Greeks afforded.

Galen is the only Anatomist of any eminence, of whom we have an account as having flourished in Rome, or of whose labors in the "Eternal City" of western Europe, we have any memorials; and he was a Greek and learned in his profession at the Medical School of Alexandria;—itself founded and maintained by the Greeks.

Superstition had even more sway with the Romans than with the Greeks, and they trusted far more to the incantations, mysteries and

foolish rites than they did to the surgical skill of those, who combining the characters of augur and surgeon, at once undertook to cure both the bodily and moral ills of their followers and believers.

In the earliest ages of Greece, burying the dead was practised rather than burning, and although the latter mode was in practice as carly as the siege of Troy and soon became general, interring continued to be practised in many cases.

The philosophers were divided, and although the majority were in favor of burning, there were at a late period those who looked on

the custom of burning as barbarous and inhuman.

With the Romans, however, the practice of burning was more general, and it universally prevailed from the days of the Dictator Sylla, who is supposed to have ordered his body to be burned lest his enemies might have disinterred it, and treated it with like indignity as was by him shown to the remains of Marius.

Under the Emperors the custom of burning became universal, but was gradually dropped on the introduction of Christianity, so that it

had fallen into disuse about the 4th century.

This custom no doubt tended to discourage and render difficult anatomical dissections among the Romans. Galen, upon coming to Rome from Alexandria was made physician to the good, and therefore great, Marcus Aurelius. He compiled from the Greeks and also prepared a compend of his own, that was the most complete then extant.

No other anatomist is known to have flourished and no other improvement in the science was made, till after the downfall of the Roman empire and the revival of letters in Europe. About the year 1530, there appeared the prince of quackery, Philippus Aureolus Theophrastus Paracelsus Bombast Von Hohenheim. He was born at Zurich and lectured at Basle. His theory was, that salt, sulphur, and quieksilver were the constituents of all organized bodies, and were combined by chemical operations. Their relations were governed by Archeus, a demon, who was governor of the stomach; that this demon, this spiritus vitæ, was the immediate agent both in producing and in curing disease. Diseases were produced by influences, called by him ens estrale, ens veneni, ens naturale, ens spirituale and ens deale; that when the demon was siek, putrescence or mortification took place, and that either localiter or enunctorialiter. Such theories, though once soberly taught and seriously believed, seem now as ridiculous and amusing, as Pope's account of the researches of Martinus Scriblerus for the seat of the soul. profound philosopher, according to his biographer, concluded that the soul resides in different parts according to different inclinations, sexes, ages, and professions. Thus in epicures, he seated it in the mouth of the stomach; in philosophers, in the brain; in soldiers, in the heart; in women, in their tongues; in fiddlers, in their fingers: and in rope-dancers, in their toes; at last however he grew fond of the Glandula Pinealis as being the favored residence, and he was confirmed in this theory by observing, that calves and philosophers, tigers, and statesmen, foxes and sharpers, peacocks and fops, monkeys and players, courtiers and spaniels, moles and miners, exactly resemble one another in the conformation of the pineal gland.

The period, which followed the dceline and fall of the Roman empire, is known as the dark ages, and the seicnee of medicine was lost to all useful purposes and elecked as to any improvement, for about 1,000 years, when a Paduan physician ventured to give demonstrations in anatomy, The emperor, Frederic II. issued a decree prohibiting all persons from operating on the living, who had not learned dissection on the dead.

But on this science, as well as on all others, priestcraft and super-

stition exercised a baleful influence.

The students of anatomy were destined to experience a portion of that illiberal spirit, which punished Galileo for teaching the true system of nature. Pope Bonifaee VIII. prohibited dissections under the penalty of excommunication. But a prince, not more eminent in arms than for his love of the Arts, and his superior sagacity and strength of intellect, Charles V. of Spain and Germany, having obtained a preponderating influence in the affairs of Europe, he demanded of the Doctors of Salamanea, whether it were lawful for good Catholics to open dead bodies. Their reply was shaped in conformity with what was believed to be that eminent monarch's own wishes; that it was a useful and therefore a lawful practice. He forthwith extended his patronage to anatomists, and a great impulse was given to the science of anatomy in the Low Countries, in Germany and in Spain, and in Italy.

Vesalius of Brussels, a most eminent name in the history of anatomy, was made a Professor at many institutions, and was honored with the appointment of physician to Charles V. and Philip II. To Vesalius belongs the far greater honor of having by his knife detected and exposed the rash conclusions and fallacies of Galen, excited a spirit of inquiry and given a new impulse to the Science of Anatomy. And under what embarrassments and difficulties, he was enabled to do this may be inferred from the fact, that he was actually sentenced by a Canonical Court to make a pilgrimage to the Holy Land, to expiate the sin of having opened the dead body of a Span-

ish nobleman, who had suddenly died!

For many years after the time of Vesalius, anatomy remained in a state of comparative rudeness and barbarism, presenting occasional gleams of light, which were soon lost in the surrounding darkness. He was sueeeeded by Columbus, a name distinguished in the discoveries of anatomy, as well as by the discovery of a new world. Fallopius also flourished at the period, and is remembered as the discoverer of the Fallopian tubes. Eustachius, Servetus, Fabricius and others suecceded; Servetus elaims the honor of tracing the eineulation of the blood through the lungs, but a prior right to this honor is claimed for Columbus. Servetus died at the stake, a martyr to his religious opinions.

Fabricius first observed the valves to the veins. He had a distinguished school at Padua, to which those emulous of medical ex-

cellenee and seience very generally resorted.

At this school the true mode of study was adopted; the study of

facts instead of theories; and the consequence was that the rapidity of improvement almost exceeded hope, and the veil interposed by

prejudice and scholastic dogmatism was forever withdrawn.

Successive demonstrations and observations had prepared the way for a discovery, compared with which all former anatomical discoveries sunk into insignificance, and which was destined to change the entire system of anatomical science, placing it at once on a new but permanent and safe basis. William Harvey, an Englishman, was a student at the Paduan school.

The former discoveries of the valves in the veins led his attention to this part of the animal economy, and he was enabled soon to discover and to demonstrate the true system of the CIRCULATION OF THE BLOOD from the heart, the grand center of life, through the arteries to the surface, thence back through the veins again to the heart.

This discovery fairly overshadowed all that preceded it. Its great importance will give interest to the following extract from a life of Dr. Harvey, contained in one of those popular and excellent works

of recent introduction, "The Family Library."

"The same service which Newton afterwards rendered to optics and astronomy by his theories of light and gravitation, Harvey conferred upon anatomy and medicine by his true doctrine of the circulation of the blood. He was descended from a respectable family in the county of Kent, and was born at Folkstone on the 1st of April 1578. The date of the first promulgation of the doctrine of the circulation, is not exactly ascertained: it is commonly asserted he first disclosed his opinion on the subject in 1616, after he had been lecturing four years."

"The index, however, of his MSS. in the British Museum, which contains the propositions on which the doctrine is founded, refers them to April 1616. Yet with a patience and caution peculiarly characteristic of the sound philosopher, he withheld his opinions from the world, until reiterated experiment had amply confirmed his system and had enabled him to demonstrate it in detail, and to advance

every proof of the truth of which the subject is capable."

"The reputation of Harvey had recommended him to the notice of the court, and he had been appointed Physician Extraordinary to King James I. In 1632, he was made physician to his successor, Charles I. By his unfortunate royal master he was always treated with regard and favor; and the attachment to arts and sciences, which formed a conspicuous part of the king's character, contributed not a little to promote and encourage the pursuits of our philosopher. It is not without a degree of pardonable vanity that Harvey describes his Majesty, with some of the noblest persons about the court, as deigning to be the spectator and witnesser of his experiments."

"The interest king Charles took in the success of his anatomical researches, was of singular service to him, and in particular, his majesty's favorite diversion of stag-hunting, furnished him with the opportunity of dissecting a vast number of animals of that species in a

pregnant state."

When Charles visited his northern dominions in 1633, for the purpose of holding a parliament, and going again through the cerc-

mony of a coronation, Harvey accompanied him, during which time he made an excursion to the Bass Rock, in the Frith of Forth, of

which he has left an elegant and pieturesque description."

"Soon after his return, the anatomical skill of Harvey was employed by the king's command in the dissection of that extraordinary instance of longevity, Thomas Parr, who died November 14th, 1635, at the age of 153 years. He was a poor countryman, who had been brought up from his native country, Shropshire, by Thomas, Earl of Arundel, and shown as a great curiosity at court. At the age of 88 he had married his first wife: at 102 he had done penance in ehurch for a breach of the laws provided against incontinency. When he was 120 he married again, taking to wife a widow, with whom he is represented to have lived upon the most affectionate terms. At 130 he had threshed eorn, and done other agricultural work, by which he gained his livelihood. His usual habits of life had been most sparing; his diet eonsisted of coarse brown bread, made of bran; of rancid cheese, and sour whey: but when, on his arrival in London, he became domesticated in the family of the Earl of Arundel, his mode of living was ehanged, he fed high, drank wine and soon died."

"The original MSS. of Harvey's lectures are preserved, it is said, in the British Museum, and some very curious preparations, (rude enough as eompared with the present ingenious methods of preserving parts of the human body) which he himself made at Padua, or procured from that celebrated school of medicine, and which most probably he exhibited to his class during his course of lectures on the circulation, are now in the College of Physicians; they consist of six tables or boards upon which are spread the different nerves and blood-vessels, carefully dissected out of the body; in one of them the semilunar valves of the aorta are distinctly to be seen."

"Now these valves, placed at the origin of the arteries, must, together with the valves of the veins, have furnished Harvey with the most striking and conclusive arguments in support of his novel doc-

trines."

"The interesting relies just mentioned, had been earefully kept at Burleigh-on-the-Hill, and were presented to the eollege by the Earl of Winchelsea, the direct descendant of the Lord Chancellor Nottingham, who married the niece of the illustrious discoverer of the eirculation of the blood."

"Harvey was a great martyr to the gout, and his method of treating himself was singular. He would sit with his legs bare even if it were frosty weather, on the leads of Coekaine House, where he lived for some time with his brother Eliab, or put them into a pail of water, till he was almost dead with cold, and then he would betake himself to the stove, and so it was done. He was troubled with insomnolency, and would then get up and walk about his chambers in his shirt till he was pretty cool, or even till he began to shiver, when he would return to bed and fall into a sleep."

So great was the admiration of Harvey's discoveries, that his statue was erected in his honor during his life-time by the London

College of Physicians.

But the magnificent discovery of Harvey served only to stimulate other examiners of nature's noblest work, to renewed efforts to overtake and embrace the beautiful, but light-footed, timid and retiring goddess, Truth. The dazzling light, which Harvey had east, as with the flash of a thunderbolt, on the path of true discovery, did not blind those who followed him, but like the star in the north, served to guide them in safety and certainty to new and grand results.

Asellius discovered the Lacteal ducts, Pecquotus, the Thoracic

duct.

Two anatomists of the last century, Hunter and Hewson, discovered the Lymphatics, and that they serve the admirable purpose of taking away the useless and superfluous parts of the human frame. Thus it would seem that the triumph of anatomical science had been fully assured. The stomach and its auxiliary organs had been found to be the grand laboratory, in which the nourishment, supplied by the appetites, was converted into blood, or into blood in its incipient condition: this has been followed in its progress, till it arrived in the condition of arterial blood at the lobes of the heart, the grand center of life: thence it had been followed, pouring forth through the arteries its crimson current, rich with nourishment, health and strength, to the remotest and smallest members, and thence its return through the veins has been traced back to the heart, again to recommence its course of health, vigor and strength, to the whole and perfect man.

But there was another part of the human frame, which had as yet been imperfectly examined or understood. The brain had elicited many theories, but its organization, as well as its connection with, or uses in, the intellectual operations of man, were but imperfectly, if at all understood. The true history of the organization of this organ was first developed in the present century, by a German anatomist, Dr. Gall, who has become known and distinguished as the

founder of the system of Phrenology or Craniology.

Pythagoras, Plato, Galen, Haller, and other physiologists, placed the sentient soul or intellectual faculties in the brain. Aristotle placed it in the heart; Van Helmont in the stomach; Des Cartes and his followers in the pincal gland; and Drelincourt and others in the cerebellum. A succession of observations not only of the external appearances but also of the anatomical formation of the brain, in a variety of subjects, led Dr. Gall to the belief, that the structure of the brain was different from what it was generally conceived to be, and has enabled him to give a correct idea of the structure of this important organ.

He demonstrated that it consisted of two hemispheres, and that

these were composed of fibres regularly arranged.

Till anatomical research had placed every branch of Medical Science on a sure basis, the practice of physicians was directed by theories, as absurd as, though perhaps, more plausible than, those of Paracelsus. There were mechanical physicians, and chemical physicians; one physician tried to cure one fever by inducing another; another physician opposed phlebotomy in all cases; another prescribed alcohol for the cure of the gout; another, tea as a sov-

ereign remedy in all eases—forty or fifty cups for a fever, to wash off the slime of the pancreas—and another traced all diseases to an excess or want of fire or water in the system—one cured fever by starving—another by stimulating;—so that it has been truly remarked, that the ravages of the yellow fever, or of the battle of Waterloo, are trifling compared with the piles of vietims, that have been

sacrificed to false and unphilosophical medical theories.

Having thus rapidly sketched the Rise and Progress of Anatomical Science, from the extravagant and erude theories of those, who are now only remembered as the earliest of the practitioners of the Healing Art, and as the first explorers of this, then Terra Ineognita of the Dominions of Science, down to the present period of its advancement and improvement by the aid of observation, dissection and a close adherence to facts, and their invariable preference to theory, however flattering, specious or enticing;

II. We next propose to show, that the study and knowledge of Anatomy are essential to the safe and successful practice of Medi-

eine.

In teaching the most ordinary meehanical operation, the process is to begin with the parts and proceed thence to a knowledge of the whole. The smith teaches his apprentice, first to form a nail or to go through some simple operation, and starting thence by gradual progress, he acquires the master-workman's skill, and becomes competent to operate upon and to form for useful purposes large masses, or to adjust the springs and balance wheels of some nice machinery. The ship-carpenter first teaches the young beginner at this trade to prepare the plank, or to hew the timber according to a plan prepared for him, and it is by slow and gradual progress that he is fitted to occupy the place in the course of events to be vacated by his master, and to perform well and with certainty every process, necessary to convert the oak of your forests into those floating bulwarks, at once the pride and protection of your country. So with the house-earpenter, the watch-maker and the machinist.

Each and all branches of the Mechanic Arts are first learned by acquiring a knowledge of the separate parts; then looking at and becoming familiar with their mutual relations and joint effects, appearances and operations, we become familiar with the whole. We learn particulars first, then we have the materials, from which to generalize. Such is the early operation of the human mind; such its first efforts. The infant calls every one it sees, when first able to articulate, by the endearing name of parent, or by some other term, dear and familiar to it; because it has to learn by a process of reasoning to which it is not yet competent, that there are other and numerous persons in being, besides those with which it daily exchanges the fondest endearments and receives the kindest attentions. Let us apply these principles to the study of the human frame.

Man is truly wonderfully and fearfully made.

He is truly the last and greatest mortal work of the Almighty Creator and Benefactor.

He is a living, animated, nice, well-adapted, but complicated machine.

How is the machine to be studied and elucidated? How is the physician, whose business it is to keep the machine in repair, to learn his art? By taking it part from part, by tracing up effect to cause, by beginning with that which is apparent and following it up to that which is more recondite, by making himself familiar with every organ, power, effect; by learning the difference between the proper and healthy, and the irregular and diseased action of every part, and of all the parts; in a word, by Dissection.

He must learn his art by that simple process which nature herself indicates. By beginning with particular facts and thence proceed-

ing to general results.

But the knowledge which is required of the most skilful mechanic for the successful prosecution of his business, affords but a faint idea of the extent of knowledge, and accuracy of practice, that should be demanded of the thorough-bred physician, who at times takes the lives of his fellow men into his own hands, to be saved or lost as he

may prove skilful, or the reverse.

Would any one trust a valuable watch—an heir-loom—that in addition to its intrinsic value had a sort of moral and peculiar worth, from its having been the favorite timepiece of a beloved parent, of a departed sage or patriot—would such a valuable relic be trusted even to Roskell himself, had he no other knowledge than was to be learned from finely written descriptions, nicely executed and colored drawings, or even the best and most accurate models; to which however the principle of motion had never been imparted? Would a wise man employ to build the house, in which he meant to say, soul take thy rest, and enjoy the many good things that Providence has allotted thee, a house-builder whose knowledge of his trade had been learned from the works of Palladio or Stuart, rather than one, who, with cultivated mind, had learned the necessary details of his trade over the bench and in his workshop?

And shall we absurdly trust to operate on the human frame made in God's own likeness, filled with that nice machinery, to which even to approximate would bid defiance to human ingenuity and industry, those individuals who are prepared by the study of only wax models and paper drawings? If we do, accident and good luck may sometimes lead the surgeon to happy results. But he has no certainty in his operation and feels no confidence in himself. He gropes in the dark. He may do this successfully so far as to pass through the

great avenues without losing himself.

But how can we expect him with accuracy and celerity to pick up a cambric needle or to remove a grain of sand, not merely from the surface, but from the remotest and obscurest corner of that surface?

It would be far safer and wiser for a ship's crew to trust themselves and their vessel to a blind pilot; for if they took a true departure and knew the course and distance to the place at which they meant to arrive, their chance for a fortunate issue would be far greater.

Not only is this knowledge of anatomy necessary to the surgeon, but it is of so fleeting a nature as to require constant practice to keep it fresh and bright. The oldest, most practised and advoitest sur-

geon will never essay an ordinary operation on a living subject, before he first has traced out his track, with the certainty, and all the solemn sanction of life or death, on the dead subject. It is dissection, repeated and reiterated dissection alone, that can teach him, where he may cut the living body with freedom and dispatch; where he may venture, only with great circumspection and delicacy; and where he must not on any consideration attempt, what man's organization would render fatal. This frequent dissection informs the head, gives dexterity and power to the hand, and familiarizes the heart, to a sort of necessary inhumanity, the use of cutting instruments upon fellow-creatures. A proper knowledge of the organization of the human frame and of the mode and effect of surgical operations can then only be acquired by the dissection of dead bodies, and this knowledge can only be retained by frequent and continued dissections.

In addition to these considerations, it follows as a corollary from the propositions already proved, that improvements in the mode of performing known and common operations can only be expected from frequent dissections by the surgeon;—and that such improvements will be made, may be fairly inferred from the fact, that in many ca-

ses they have already been made.

Amputation of a limb has now lost many of its horrors, and the difference is immense, between the desperate resort of the Greeks and Romans, who knew of no other way to stop the hemorrhage, than to plunge the mutilated stump into boiling pitch, thus superadding agony to suffering; and the present speedy, simple process of tying up the veins and arteries, and thus placing the unfortunate sufferer at once at comparative ease. The progress of anatomical skill has already saved to afflicted humanity a vast amount of suffering, as well as preserved many valuable lives, and we believe that its resources for relieving man from many of the ills "that flesh is heir to," are neither all developed, nor, we trust, exhausted.

The extent of the triumphs already achieved by surgical skill may be adequately conceived, from the following case, which we find mentioned in a recent number of the London Medical Gazette.

" Case in which the cheek and mouth were restored by operation.

"In such cases as this (the forlorn hopes of surgery) English surgeons must certainly yield the first rank to their brethren in France, whom no difficulty seems to daunt, and whose patients seem inspired with a perseverance that sets pain and failure at defiance. At the sitting of the Academy of Sciences on the 12th of July, M. Dupuytren showed a patient from ten to twelve years old, in which he had succeeded in restoring the lips and a great part of the right check, thus filling up the void left by the loss of the lower jaw of that side. These different parts had been destroyed by a gangrenous inflammation, and the result of this great loss of substance was a hideous deformity, continual flow of saliva, prolapsus of the tongue on the neck, and impossibility of articulating.

M. Dupuytren formed the design of repairing these disorders by

borrowing a portion of the integuments which covered the anterior part of the neck. After having once failed, he succeeded in uniting

a portion of the integuments with the edges of the cheek."

"All trace of this operation is now reduced to linear cicatrices, not very disagreeable to the eye; the tongue and saliva remain in the mouth; speech, though weak and embarassed is yet intelligible; but the dimensions of the mouth are so extremely small, that a tea spoon, even, cannot be introduced, so that mastication cannot take place, and he is obliged to live upon liquid aliments. Notwithstanding this singular appearance, the boy has nothing revolting in his aspect, and his life is no longer an insupportable burden as it was before the operation."

The superiority, conceded as above quoted, to French surgeons by a British periodical, is wholly attributable to the greater facilities

afforded for dissections in France by the French Laws.

But surgical operations are few compared with the more common

maladies which require the aid of the practitioner of medicine.

Is a knowledge of Anatomy necessary to him? Does it better enable him to invoke the aid of Botany, Chemistry, Dietetics, Gymnastics, &c. &c. to restore vigor and health to the diseased frame? Is it, in fact, essential to his success in these efforts? Or is Patholo-

gy a science independent of Anatomy?

These are inquiries deeply interesting to every member of the community; for, though we all hope to escape those accidents or maladies which demand the surgeon's knife, few, if any, are exempt from the painful duty of seeking, more than once in their lives, that grateful relief which the skillful physician knows how to administer to the sinking, diseased and suffering man. A distinguished physician and most eloquent writer has said:-" If we consider every branch of medical science, education, and practice in detail, we shall discover that each has a more or less immediate reliance on Anatomy and Physiology, and that all the best established principles of Medicine are founded upon the knowledge of structure and function. Anatomy is the only department, which may be strictly declared to have an independent existence, masmuch as Physiology, Pathology, Therapeutics and Surgery exist only in immediate reference to it; and the sciences of Materia Medica and Chemistry pertain to Medicine, only so long as they refer to the other branches, which presuppose an acquaintance with Anatomy."

"Without Anatomy, Physiology cannot exist, Pathology cannot be studied, practice would be reduced to random experiment, and

Surgery degraded from the high rank it now holds."

"Without the torch of Anatomy to direct his movements, the efforts of the accoucheur would be in vain, on those occasions, where his judicious interference is attended with life and safety to the mother and her tender offspring. Without a knowledge of Anatomy and Physiology, in vain might the Chemist follow nature through her mysterious combinations, to discover agents of greater potency and usefulness than those already employed; in vain might the student

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of Materia Medica cull the drugs of distant climes, or explore the boundless regions of our own land for medicinal substances."

"Such, then, being the importance of Anatomy, and its absolute necessity to the formation of a good physician, it may excite surprise that any votary of medicine should neglect opportunities of procuring that knowledge, which is the grand axis his profession revolves upon, and to which continual reference must be made in the performance of the most ordinary professional duties."

"The importance of anatomy is often assented to with readiness, but is too frequently not properly felt, until the individual is placed in situations where all his deficiencies stare him in the face, and his mind is agonized by recollections of valuable opportunities, irretriev-

ably lost."

"A greater misfortune can scarcely be imagined, than to witness operations performed by those, who have no better knowledge of anatomy than is supplied by their indistinct recollections of demonstrations imperfectly attended to, or the Anatomical details given in descriptions of surgical operations."

Reasoning from analogy, the inference is irresistible, that the ba-

sis of all medical skill is a knowledge of anatomy.

How would the mariner successfully navigate the ocean with his frail bark, were he ignorant of its construction, unskilled to trim its sails, and to shape its course, so as best to encounter the opposing as well as favoring swell of the deep. Could the watch-maker or the machinist nicely adjust the various wheels, springs, checks, and regulators which unite to make the complete machine, were he ignorant both of its parts and of the principles and means of their mutual and combined action?

If not, how can the physician safely proceed with the human machine in navigating through the difficulties and trials which it is called to encounter, how can he hope well to repair what is disordered, or to replace what has been displaced, if he be ignorant of its construction, has never analysed and properly studied the principles and means of its nice, peculiar, and most wonderful operation? Assuredly he cannot. Anatomy, then, is the basis of safe medical practice. Not a step can the medical practitioner proceed without

its light to guide and cheer him.

The human machinery is most complicate and recondite. We see the results, but we do not understand the causes and means by which they are achieved. We walk, we sit, we lift our hand, we sleep, we eat, and the body is nourished; these are daily circumstances, common place, nay, almost hourly events in every man's history; but how few are there, not, who understand the machinery by which these results are achieved, but who can fully and seriously appreciate that these, and every other operation of the human frame, show that man truly is fearfully and wonderfully made. The organs, on which most of the important functions of the human body depend, are concealed from view. Their mutual effects and sympathies can only be understood by the knowledge of their secret, most recondite operations.

The grand mysteries of nature have only been developed by a

close observation of nature as she is. Theory will not do. Had Newton been a theorist, instead of a patient observer of nature, the system of gravitation would not have been discovered. Had Franklin been a day-dreamer, the nature of lightning and its identity with electricity might have been yet involved in mystery. It was Galileo's love of nature and his close observation, that taught him the true system of atmospheric pressure. Had Harvey been a theorist, his theories might have been remembered as well as those of Hippocrates, Asclepiades, Galen, and Paracelsus; "To point a moral or to adorn a tale;" but they would have been as useless and as unenduring. He was an observer of nature, he loved dissection, and his close observation of the human economy enabled him to make the brilliant discovery of the circulation of the blood. Systems of vessels of essential importance, for instance the absorbents that take up the food after it is digested and convey it into the blood, are under ordinary circumstances invisible to the naked eye. How could these absorbents been known to exist, except by careful and thorough dissection. Many diseases of the highest importance have their seat in the organs of the body: an accurate acquaintance with their locality is essential in order to judge of the locality of the

In some portions of the body organs of different structure and performing different functions are very contiguous: we name the stomach, the liver, the gall-bladder, and portions both of the small and of the large intestines. The seat of pain is often at a great dis-

tance from the afflicted organ.

In the disease of the liver, pain is generally felt at the top of the right shoulder. The right phrenic nerve sends a branch to the liver. The third cervical nerve, from which the phrenic arises, sends numerous branches to the neighborhood of the shoulder: thus is established a nervous communication between the shoulder and the liver. This is a fact, which nothing but anatomy could teach, and affords the explanation of a symptom, which nothing but anatomy could give. The knowledge of it would infallibly correct a mistake, into which a person, who is ignorant of it, would be sure to fall: in fact persons ignorant of it do constantly commit the error.

Disease of the liver has been known to be crroncously treated as rheumatism in the shoulder, and this error may have been fatal to the patient, by giving to a fatal and insidious disease an opportunity of taking root in the system. Disease of the liver is not unfrequently taken for disease of the lungs. So too, persons treated for disease of the liver have been found to have had no disease of the liver,

but a disease of the brain.

Persons are often attacked with convulsions, especially children:
—convulsions are spasms;—spasms of course are to be treated by anti-spasmodics. But these spasms are only symptoms, denoting an important disease of the brain, where only the remedy is to be applied; and the ignorant practitioner who prescribes and administers anti-spasmodics, not only loses the time in which the remedies to save life can be successfully employed, but actually exacerbates the disease and accelerates its fatal termination. In the hip complaint,

so terrible and painful a disease, the first pain is felt in the knee, not in the hip. Of the numerous painful affections of the abdominal region, the lungs, the heart, the head and the extremities, some are traceable to a nervous origin and are known as Neuralgic Diseases. Dissection has enabled the anatomist to follow the nerves from these portions of the human frame into and through the spinal marrow, and other large but remote masses of nervous matter:—and this has suggested to the physician the truly philosophical remedy for the painful affections of these regions, produced by disordered nerves; viz. to apply remedies to the back,—the less obvious but true seat of the disease,—instead of to the immediate locality of the pain. Remedies thus applied have had the happiest effects, and afford new and striking illustrations of the necessity of anatomy to the successful practice of medicine.

Error in all these cases is inevitable without a knowledge of anatomy; and experience, so far from leading to its detection, would rather serve to confirm it. Ignorance of the mode of properly applying his experience deprives the unskilled in anatomy of the ability

of profiting by it.

How long was it before the true solar system was discovered and demonstrated, and how useless all the experience and observation of the grand results, produced by that magnificent system of nature, from the time that the shepherds watched the stars on the plains of Chaldea;—till beginning at first principles, by a rigid induction those results were clucidated by Copernicus, which afford a sure explanation of phenomena, before enveloped in darkness and mys-

tery.

So with the human system: till an actual examination of its parts and consequent familiarity with their relations and operations has prepared the medical practitioner, when he has observed the effect, at once and with certainty, to follow it back to the cause, whether remote or near, direct or indirect, his observation and experience can only serve to confirm him in error. He may make theories, but they will not be based on philosophical principles; they may by accident and luck be right, but they are far more likely to be erroneous, and, like the thousand and one that have preceded them, will go down the stream of time into "the receptacle of things lost upon earth." In medicine, as in the common concerns of life, it is the wise only who grow wiser by experience.

To the physician, anatomy is thus important. But to the surgeon, it has been emphatically remarked; that it is eminently what Bacon has so beautifully said knowledge in general is, "it is power;"—"power to lessen pain, to save life, and to eradicate diseases," which

without its aid would be incurable and fatal.

It is recorded of Napoleon, that he once said that Larrey was the greatest man in his empire; generals, fit not only to command in the tented field and to set hundreds of thousands in battle array, but also to wield the destinies of empires, and to wear the crown of royalty, he had in crowds,—but there was but one Larrey.

If we look at the present condition of surgical skill, in immediate comparison with the degree of skill attained by the Greeks at their

highest advancement, we may appreciate the extent of the progress that has been made, and the obligation which the world owes to those great men, who have devoted their lives to this necessary, but unjustly odious business of anatomical study. The Greeks and Romans very rarely attempted amputation, and more rarely with success. They knew of no better mode of stopping hemorrhage than to plunge the mutilated limb into boiling pitch, searing it with a hot iron, or some other process equally barbarous and inefficient. tie an artery was far beyond their science.

The Roman emperor who grieved that he could not add a new word to the perfect Latin of the Augustan age, would have considered the achievment of this, now simple and common operation, far more useful, desirable, and honorable. Aneurism is not an uncommon complaint, and it now yields, in a majority of cases, to proper surgical treatment. Galen is the first writer who notices it, and, if the number now annually cured by surgical skill of aneurism, be assumed as the number, who annually perished for want of this aid, for one thousand years prior to Galen's era, some adequate idea may be obtained of the importance of anatomical skill to the safety

of human life.

The operation for aneurism, or preternatural dilatation of the coats of an artery, now in practice, was introduced by Mr. John Hunter, the founder of the Hunterian museum, since his death purchased by the British government for 15000l. and given to the London College of Surgeons. He boldly determined to operate upon the healthy part of the artery, stopping the circulation there, and by the healthy condition of that part of the artery, assured the completeness of the adhesion of the sides of the vessel, and the consequent obliteration of the artery where diseased.

It was a bold experiment. For aneurism in the ham of the leg. he boldly cut down upon the main trunk of the artery, where it supplies the lower extremity; but bold as the experiment was, it was justified by his accurate knowledge of the whole human economy, and his succ ss has earned him a just rank among the benefactors Abernethy followed his master in bold operations—he tied the external iliac artery for the cure of aneurism of the femoral. and lately, the internal iliac itself has been taken up; and surgeors have tied arteries of such importance, that they have been themsclves astonished at the extent and splendor of their success. Every such operation, successfully performed, saves a fellow man from inevitable death.

There are circumstances under which it would be impossible for the superficial observer; for the physician of more experience and expedients, to distinguish between an aneurismal tumor and an abscess. The latter requires to be opened by the knife; the former, if opened by ignorance, is followed by almost immediate death.

Richerand has recorded of Ferrand, chief surgeon of Hotel Dieu. that he killed a patient by mistaking an aneurism in the arm pit for De Haen mentions a person who died in consequence of the opening, against the advice of Boerhaave, of a similar tumor near the knee. Vesalius pronounced a tumor on the back to be an

aneurism, but an ignorant practitioner opened it and the patient bled to death. Such mistakes are easy, except to those thoroughly skilled in anatomy, which in all such cases is therefore necessary to

prevent the most deadly mistakes.

The effectual stoppage of the flowing of the blood from the wounded vessels of the human frame, is of the last importance. Anatomy has taught the surgeon how this may be done. The ancients, we have already said, were wholly ignorant of it, and when necessity compelled them to the attempt, they resorted to the most cruel expedients, either of which besides being inefficacious, would now be regarded by a humane man as the extreme of cruelty, if applied to the least valuable of the brute creation.

Anatomy has taught that the flow of blood can be stopped by external pressure, applied to the wounded vessel, or if this be not feasible, by boldly cutting down to it, and applying a ligature. Paré, in a moment of enthusiasm, supposed he had been led to this discov-

ery by the immediate influence of the Deity.

It has enabled the surgeon to attempt operations, which without it would have been impossible and desperate; but more, it has taught him that where a hemorrhage is apparently so violent as to threaten instant death, the mere pressure of a finger, directed by unerring science, may check the living torrent, till there be time to tie the vessel up, and give nature time and opportunity to repair the loss that has been sustained.

But without that perfect knowledge of the whole human frame, of every vein and artery, muscle, nerve and bone,—that anatomy only can give; the surgeon, with the aid of the best apparatus, with the most perfect self possession, would find his efforts defeated, and valuable lives would be lost to society. The surgeon must be ready on the instant to place his finger on the exact spot with certainty, and without pause or hesitation. As much so, as Mr. Maelzel is to touch the secret springs of his Automata, in order to excite the applause and wonder of his spectators. When the ancients attempted amputation, from their ignorance of the true system of circulation and of the mode of stopping the bleeding, the patient usually died under the operation, in ipso opere. In the manner in which amputation is now performed, not more than one in twenty of the patients loses his life, taking into view all the cases, even the most desperate, in which it is attempted. In the present practice in England, where amputation is performed at the proper time and in a proper manner, it is computed that ninety-five persons out of one hundred recover from it. Among the ancients, the operation killed oinety five out of one hundred. Among the moderns it cures ninety-five out of one hundred; such are the results of dissection and the study of anatomy.

Another disease which is of frequent occurrence, far more frequent than is generally believed; for it is found in all conditions of

life, with the rich and poor,-at all ages too; from

"The infant
Mewling and puking in the nurse's arms"—

Up through every gradation in life to

"The lean and slippered pantaloon, With spectacles on nose and pouch on side;"

or that later and more cheerless scene in the drama of life, which

"Is second childishness and mere oblivion; Sans teeth, sans eyes, sans taste, sans everything:-

but the agonizing pains of a disease, which even the chills of old age cannot divest of their violence or activity. This disease is hernia, vulgarly known as "rupture or burst."

What is known as strangulated hernia, or such a pressure upon a protruded intestine as prevents its usual and proper motion and evacuations, is a dangerous and sometimes rapidly fatal disease.

The uninformed may easily mistake it for inflammation of the bowels, and such a mistake must be almost inevitably fatal. The disease is often frightfully rapid, as well as fatal in its progress. Sir Astley Cooper mentions a case in which a person died in eight hours

after being attacked with this disease.

Larrey mentions a case in which a soldier died of strangulated hernia in two hours, and this was the second instance, that had occurred to this eminent surgeon, of such frightful rapidity in this disease. If relief cannot be given in this complaint at once, in the usual way; in all bad cases, an immediate and most delicate operation becomes necessary; delay or indecision may render it useless, and the patient dies. But before the intestine be returned, perhaps an operation may be necessary on that, and this can only be done with safety by those, whose hearts have been emboldened and whose hands have been strengthened by the daily use of the dissector's knife. How necessary then, in this class of diseases, is a thorough knowledge of anatomy?

Every man's experience tells him that the disease is of very common occurrence, and that it may be his dearest and nearest friend, who will next require the presence of the experienced physician and anatomist, to perform promptly and unhesitatingly a difficult and delicate operation. An experienced practitioner says on this subject; "I have performed this operation thirty-five times and have often had occasion to lament that I performed it too late, but never

that I performed it too soon."

Within late years the progress of anatomical science has emboldened the surgeon to approach those organs, which have been supposed so essential to life as to be beyond human skill. The wind-pipe is now successfully opened and many valuable lives are saved, which could be saved in no other way, when by accident the wind-pipe has become obstructed.

It is known, that at times diseases of the throat prevail with great mortality, and it is also known, that the extent of diseased structure in such complaints is small, compared with many other diseases less fatal; but the great fatality is owing to the small and essential part

of the human frame, in which the diseased action exists.

"The Father of his Country," George Washington, was cut short of life after a career of usefulness by a fatal disease of this

kind. May we not hope, that anatomy properly encouraged may teach the surgeon, how to wage on this fell destroyer of our race a successful war, with the knife and the cautery; which he would in vain attempt with internal medicines and external stimulants? It would be a glorious triumph for American surgeons to discover and successfully to use a new, bold and speedy remedy for a mortal disease, which cut short the earthly career of the greatest of men and best of patriots;—though not till he had truly "FILLED THE MEASURE OF HIS COUNTRY'S GLORY."

Such being the utility—the indispensable necessity, both to the physician and surgeon, of anatomy; a knowledge of which is only to be learned first, and then preserved, by the frequent and contin-

ued dissection of dead bodies:

We are next brought to the inquiry;—Is there in Dissection any thing wrong or unjustifiable; or rather is it not highly commendable, and ought it not to receive the countenance and patronage of

every liberal and enlightened community?

This inquiry is beset with difficulty. We encounter at once a prejudice of great prevalence, long established and most deeply rooted. To those earlier nations, whom the infinite wisdom of the Almighty permitted to grope in darkness, with that imperfect knowledge of a future state,—those faint glimmers of hope, which unaided reason could discover, and who were denied that full effulgence of Revelation, which Christianity has made to beam upon us; the superstitious reverence for dead bodies was made by early lawgivers imperfectly to answer the purpose, that the sanction of a known and certain future and higher state of rewards and punishments now af-The repose of the soul, its condition in another world, and even its capacity to enter the regions of bliss-however eminent the individual in his life was for virtue,—was supposed to depend on the disposal of the body after death. Eneas by performing the usual funeral rites hoped to give repose to the soul of the murdered Polydorus :-

"Animumque sepulchro Condimus et magna supremum voce ciemus."

"And give the soul its requiem in the grave And sound the melancholy last farewell."

Beresford's Translation.

The Jews considered him that touched a dead body polluted, and the Egyptians from whom the Jews probably learned this superstition, though they labored to counteract the course of nature, so far as by embalming to preserve the perishable parts of the human frame from the decay that follows death, still held those, by whom this process of embalming was performed, in horror, and actually stoned them, when they appeared in places of public resort.

The heat of Asia Minor and adjacent regions, whence, as from a center have diverged the civilized habits and finest fruits and most useful animals, now in common use in aid of the arts of civilized life, was so intense as to render anatomical pursuits dangerous and offensive; and this may have been one of the reasons for this early

aversion towards dead bodies, and those who disposed of them. the progress of civilization into Eastern, and thence to the shores of Western Europe, the early prejudices of the Asiatics accompanied their superior refinement and civilization. While Egypt and Phenicia were highly commercial, enterprising and refined, acquainted with the rudiments at least of civilization;—the Greeks were wholly ignorant of them, lived on the spontaneous fruits of the earth, clothed themselves with skins, which they procured by hunting, and sheltered themselves in the forests or in the caverns of their country. When the Island of Crete was first subdued, by adventurers from Phenicia under Minos, the first step in the civilization of Greece The Egyptians, who established a Colony at Argos, eleven hundred years, and the Phenicians under Cadmus, who settled Bœotia, ten hundred and fifty years before the Christian era, taught the natives the useful arts, order and civilization, religious rites and ceremonies, and above all the use of the Alphabet. also was transferred to Greece, thence to Rome, and thence was transmitted through the ignorance of the Dark Ages; and afterwards, in aid of that craft by which monks and priests are maintained in wealth and influence, down to the present age and across the Atlantic,—that superstitious idea of pollution from the contact with a dead body, which the most liberalized mind, even now, finds it hard to shake off.

Pluto first taught the Greeks how to perform the last offices to the dead body: he was in after ages canonized, and to him was assigned the empire of the shades,—the supreme Monarchy of the dead.

Most of the thirty thousand gods of Classic story have had a like origin,—being originally mortals, canonized for some useful art introduced by them, while living. Ceres was a cultivator of the soil;—Diana loved the chase, and taught the use of its weapons;—Vulcan was a blacksmith; and Bacchus was a right jovial fellow, who knew,

how both to make good wine and to drink it.

To the Greeks the funeral rite was not only the last, but the most indispensable duty to the dead. Believing that interment was necessary for the repose of the soul, the worst imprecation in their estimation was, that a man might die destitute of burial; and of all forms of death, that of shipwreck was therefore the worst. It was unlawful with them to pass by a dead carcase without giving it the forms of interment, even if they went no further than to sprinkle upon it some handfuls of sand. Hence probably were derived some parts of the ritual of Christian burial, as practised by some denominations. Hector, as the greatest aggravation of his victory over Patroclus, denied him the rites of burial; and Achilles revenged this by denying the same rites to the conquered Hector. It was a part of the punishment of treason to deny the executed traitors the rites of burial. The same punishment was extended to tyrants and to those who laid violent hands on themselves; for all such were considered enemies Phocion was first unjustly condemned by the to their country. Athenians, and after his execution his body was cast out of Attica, and a heavy penalty decreed against any, who should honor it with interment. Democritus, the Philosopher, was very near being denied

burial; being considered a spendthrift, for having spent his inheritance in foreign travel and in searching out the mysteries of nature.

It is ever the common result with the uninformed mind, to bestow that reverence on the external form, which, if properly directed, should be given only to the acting cause and controlling spirit. The Indian, unacquainted with fire-arms, worshipped the gun of the European, expecting, by so doing, to deprecate its destructive power.

"Do not speak evil of the dead; no, not though their children provoke you"—was one of the laws of Solon. It was worthy of that wise lawgiver, and, so far as the funeral ritual of the ancients produced the sacred awe which it was intended to excite, and the moral influence it was designed to exercise in taming the angry passions of men, destitute of the higher sanctions of revealed truth, so far it was useful and commendable. But its effect in producing a superstitious dread of that clod of earth, which, when deprived of its principle of animation, is destined soon to return to the dust whence it was formed, and be again employed in reproducing some new form of animated matter, is only one among many illustrations that history affords, of the weakness of man, unaided by revelation, to appreciate his higher destinies, and to distinguish between what is due to his immortal nature, and its mortal and ever changing vesture.

It is not, therefore, to be wondered, especially as the public mind till within a few years has not been excited to a full discussion of the subject, that there exists in this community, at the present enlightened period, much of this early prejudice against dissection of dead bodies.

"Truth," says Wollaston, a name dear to science, "is the offspring of unbroken meditations, and of thoughts often revised and corrected." It certainly requires great patience and resolution to dissipate that cloud of darkness, that surrounds her, or to draw her up from the deep well, in which she lies concealed. If the entire community could be as well satisfied of the necessity of the dissection of dead bodies, to prepare the surgeon to operate or the physician to administer, as they are of the necessity of surgical operations or of medical doses, in certain cases, however excruciating or disagreeable the remedies in these cases resorted to may be, they would have the same opinions in the one case as in the other, and would be as free from prejudice in one case as in the other; -they would hold the dissector and the operator in like esteem and honor. the difficulty is, that the early and powerful prejudice against dissection having compelled medical men to practise it secretly, the community have reaped the benefit of these secret studies, without knowing how the knowledge has been acquired, and the inevitable result has followed,-a common error has prevailed in the whole community, that all the essential prerequisites for medical practice may be learned without dissection. "Damnant quod non intelligunt" "What I understand," says Socrates, "I find to be excellent: and therefore believe that to be of equal value which I cannot understand." This was a remark worthy of that heathen philosopher, who was imbued with much of a true Christian spirit, though his

eyes were never greeted with the light of Revelation, which "Kings and prophets longed to see, but died without the sight." The course of public opinion with most seems to be, in relation to the medical profession, to reverse the wise rule, adopted by Socrates. They believe that part of it which they understand, and whose benefits they feel or see every day, to be excellent and praiseworthy; but that part of it which they do not understand, and which superstition and carly error has shrouded in mystery, and armed with dread to their eyes, they believe to be wicked and execrable. Some go farther in their career of prejudice. Not only do they refuse to be convinced, but they seem to be resolved to transfer a portion of their aversion to the only and essential mode of acquiring safe medical science from the pursuit, to those who, with more liberalized notions, venture to recommend it to public countenance and patronage.

To convince a man against his will is no easy task, but to please him against his will far transcends the compass of human ability. The power of prejudice cannot be easily overrated; it is utterly and essentially incompatible with impartial examination. It eomes from early education, from example, from association, or from some incidental eircumstance; casting our opinions on a given subject in a particular mould; but making an impression on the mind that is seldom obliterated. We see it operate with us, who boast of being free from servile attachments, superstitious fcars, or baseless prejudices. We see it in our religious, our moral opinions, and in our political contests; making in a breath, those men to be esteemed corrupt and unprincipled, whose whole lives have been a glorious eareer of public scrvice,-" without fear and without reproach;"and with as much ease, affixing upon the brows of passion, ignorance or selfishness, the bright glories of exclusive Republicanism, profound political science, and refined and most disinterested love of

Such is the power of prejudice;—of popular prejudices—and this power in all its force and freshness,—the Legislator, who would legalize the study of Anatomy, must prepare himself to encounter.

His first duty is to look at the subject as it is, not through the colored medium, with which his early education, associations, or any other extrinsic circumstance may have surrounded it. He must too look at what is to be submitted to the dissecting knife, not as it has been, but as it is, and as it is to be. He must reverence the dead; but he must understand by this, not to look with superstitious awe upon a dead body, as though the last struggle of expiring mortality, which reduced it to a level with other inanimate matter, had conferred upon it the power of a demon, to be propitiated for good or ill. He must understand by reverencing the dead, to respect the feelings of the bereaved friends, and to be eareful of the good character of the deceased—to let the ill he may have done die with him, but the good he may have achieved be remembered—to the honoring of the dead, and to the comforting of the living. This is the true philosophical and religious reverence for the dead; and if there be, as there are,

in every populous community, many, of each of whom it may be truly said:

"Lone, wild and strange, he stood, alike exempt "From all affection and from all contempt;"

assuredly true wisdom would dictate that the physical power and organization, that in life all such had misapplied for any useful purpose, after life had ended, should be devoted to the promotion of science and the advancement of the great stock of human comfort and hap-

piness.

In a letter to Elbridge Gerry, late Governor of this Commonwealth, dated January 26, 1799, Thomas Jefferson writes: "I am for encouraging the progress of science in all its branches: and not for raising a hue and cry against the sacred name of Philosophy; for awing the human mind by stories of raw head and bloody bones, to a distrust of its own vision, and to repose implicitly on others; to go backwards instead of forwards to look for improvement; to believe that government, religion, morality, and every other science were in the highest perfection in ages of the darkest ignorance; and that nothing can ever be devised more perfect, than what was established by our forefathers." This is sound doctrine, sanctioned by one of the most truly venerable names, that has yet been emblazoned on the world's history.

Let it be applied to the subject now under consideration, and let not, in this enlightened land, any wise man be deterred by "raw head and bloody bones" stories, from taking those steps, which shall give a proper impulse to anatomical science, and cause it to go "for-

wards" to the most honorable results.

Decay is the lot of the mortal part of man. Though created in God's own likeness—though gifted with powers, that have enabled him to subdue the animals, to modify the vegetable creation and to make even the elements subservient to his comforts or pleasures,—he still must die; "that longing after immortality" which tells man in all ages and places, there is that within him, which is destined to survive "the wreck of matter and the crush of worlds" we know must be gratified, but in another and better world. Man must die. The seed sown here, like the seed sown in the earth, must decay; must throw off its earthly vesture, before it can burst forth into a new existence;—springing up with a new being and with perennial beauty and vigor, producing a rich and glorious harvest of immortality.

From the period of the helpless infant, through the period of adolescence, up to manhood, his physical progress is upward; then he is for a while stationary; then the down hill of life commences, and soon the scene for this world is shut in forever. Decay soon effaces the "lines where beauty was once wont to linger," and nothing is left of the mortal part of the proud "lord of creation," but matter—as lifeless, as insensate, as the stones on which we daily tread. But the change does not end here. This lifeless and insensate matter is destined soon to be commixed and lost in the great mass of matter which composes the earth on which we live, and is again to be em-

ployed, in the great business of reproduction for some other of Nature's works. The same particles of matter which made a part of the mortal frame of the fearless Hampden, or of the not less fearless, but far less patriotic Cromwell, may have since become incorporated with the oaks that overshadowed their graves: those oaks have been cut down and converted into ship timber, and that timber employed upon those ships perhaps, which bore to our shores, a half century since, the myrmidons of tyranny and oppression.

He, who a century hence plucks a relie from the tomb of Napoleon, for from the tomb of our own far greater and more glorious Washington, perhaps will little think that he may bear away with him some of the same particles of matter, which once formed the

noblest hearts and clearest heads, the world had ever seen.

"Imperial Cæsar, dead and turned to clay, Might stop a hole to keep the wind away; Oh! that the earth, which kept the world in awe, Should patch a wall, t' expel the winter's flaw!"

But so it is; matter remains the same and unchanged as it was created-but its combinations are ever changing, and limited only by the wisdom of the All-wise mind by which they are directed. "It is not from man alone that nature exacts this tribute of decay. If we extend our observation throughout the universe, we shall diseover analagous changes going on in all animate and inanimate There is in all things belonging to our globe, a perpetual tendency to change of form, without the destruction or annihilation of any one principle. Whenever animation is finally suspended, the chemical affinities of the mass come into operation, the forms, which lately withstood all external changes, become affected by the slightest vieissitudes of heat and moisture, and speedily putrefy. co-operation of vast numbers of insects hastens the disintegration; the aqueous and aerial partieles exhale, while the solid and more earthly portions go to aid in the composition of a richer soil for the benefit of other forms of animated bodies. Thus all things must change, according to their nature, from the granite mountains to the mushroom on the dung-hill. It is the attribute of God alone to be "without variableness or shadow of turning," to be immoveable, while all else is in unceasing motion.

"Tu! Tempus ab ævo ire jubes,
Stabilisque manens, das cuncta moveri."

Boethius.

All dislike of dissection so far as the dead arc concerned, is entirely unphilosophical; nay more, it is unworthy of any man who properly appreciates the value of his immortal nature, and the true character and destiny of its habitation in its present sphere of being. Who would not prefer, were his own feelings only concerned, to be useful even after death to his survivors, rather than to fester and decay—to feed the numerous worms and to undergo the slow and disgusting process of chemical decomposition, in the silent recesses, gloomy vaults and mephitic vapors of the Charnel House? To use again the language of a most eloquent writer and most devoted follower of science; "as to the repose of the tomb, the disturbance of the dead, it is mock-

ery of common sense and totally absurd: it impugns the verity of the religion, we believe most holy: it is an indignity offered to the character of the Supreme. What avails your profound interments—your six feet of earth, or iron coffin, or leaden shrouds? The moment life departs, every breeze that blows, wafts myriads of insects to the feast:—they deposit their eggs unseen by the friends, who watch at the side of the corpse: committed with the body to the earth, they are dormant only until sufficient heat is evolved by putrefaction to call them into activity:—they then feed to fatness on the rankling corse: and when ready to assume their perfect shape, work their way to the surface and wing their flight to repeat a similar process on other dead. Tell us not then of the repose of the tomb: when bodies we so carefully deposit in earth are not only dissolved by the chemical affinities of their own elements, but serve as food to myriads of insects, and are sooner or later carried abroad

upon the four winds of Heaven."

"Grant that every precaution be taken: and that we pile defences around these perishing relies, heaping brick or marble, or granite upon them? It is but deferring the disturbance of the repose a few years longer, until the monuments themselves perish and are no more, from the uninterrupted operation of those laws, which command all matter to change form. The finest sand washed by the surf on the shore, once formed an integral part of mountains, which might in their day have been called everlasting, but which nature forbade to be immutable." The same eloquent writer again says "Some persons, well informed upon almost every other subject, associate the idea of anatomy with barbarousness and eruelty. They regard the man who strews the plain with thousands of dead, immolated for the gratification of his ambition, as a hero, worthy of laurels and applause; while they view the devoted student and follower of science almost with disgust, and are ever ready to join in the elamor against him as a violator of the repose of the tomb: a disturber of the dead. Strangest of all, this happens in a Christian land, where devout and faithful ministers of the Gospel are daily employed in declaring that the soul is immortal, the body corruptible and evanescent, and the Creator omnipotent."

We make one more extract, as it affords a concise and complete view of the difficulties, now presented in this Commonwealth, to the attainment of medical science. "The object of dissection is to display the curious and wonderful structure of man, to investigate the causes of disarray and disease, in order to minister to the afflicted: it is to examine the dead before their first great change of form, in order that we may successfully bind up the wounds and mitigate the sufferings of the living. It is not mere curiosity that leads us to endure all the privations and unpleasantness in making such investigations. We come with the respectful and serious carnestnestness of men, aware of whose presence we are in: we study the instruments of motion that we may prevent it from being suspended: we associate with death that we may preserve life: we submit to sad and solitary silence that we may speak peace and health to the diseased: we breathe noisome, sepulchral vapors, and drive the life-blood from

our pallid cheeks to stagnate around our hearts, that we may gain the only knowledge, which can efficiently aid us in warding off the thousand ills, that frail mortality is heir to. Surely we have enough to endure, we suffer enough in feeling and health, in foregoing the enjoyments of social life, and in encountering the stupid misrepresentations of the ignorant: might we not be permitted to hope we should escape the prejudices of those, who would fain be esteemed enlightened? The man who devotes himself to a life of toil and privation for the benefit of his friends and community is lauded for his self-denial, his benevolence and patriotism: but he who transcends the influence of prejudice and ignorance, who separates himself from his fellow men in order to serve them, who schools his own feelings to endure, what otherwise would be as repugnant to him as others, and submits without complaint, to all accidents connected with a study so generally misunderstood; instead of being considered, as he actually is, a benefactor to his race, is too often regarded as something unnatural, insensible to all human emotions, or, worthy of reprehension and injury for the very conduct which gives him the strongest claim upon public gratitude and respect."

Thus far we have seen that dissection, so far from being wrong or censurable, is in every respect worthy of the encouragement and countenance of the good and enlightened. Its objects are praise-worthy—its ends most important and beneficial to society, and the objections to it unphilosophical and imaginary. But there is a solid and serious objection to giving unlimited range to this branch of Medical Inquiry. It arises from the outraged feelings of surviving

friends.

The principle of association is one of the most active and important, and when well governed, one of the most useful principles of the moral and intellectual man. It teaches us to transfer the love we bear to the individual, to the form and features, with which that individual is inseparably associated in our minds. A parent, for instance, loves a child with an affection that knows not end, even with It is not the limbs, face or form, that is loved, but the person, the individual—the immortal soul and its accompanying intellectual powers, moral principles and tender affections. Mutilate those limbs, disfigure that face, or emaciate and change that form, by wasting or nauseous disease, this love knows no change; it is neither mutilated, disfigured nor wasted,-the individuality of the person loved remains the same. But still there is for the form, the inanimate remains of those we love, the tenderest feeling; it recalls all that they have said or done for our happiness, and the remembrance of it comes over the affections,

> "Like the sweet South, That breathes upon a bank of violets, Stealing and giving odor;"—

and we inevitably transfer to the outward form of a departed friend, much of that affection which the living individual enjoyed before death. It is the same principle which gives, in the eyes of the superstitious, value to the supposed relics of Saints and Martyrs, which

makes the spot where the ardent lover first met his mistress, be it as barren and desolate as the isle of St. Helena, a paradise; and the smallest token of reciprocated love,—be it a trinket or a lock of hair, of more imaginary value than the diamonds of Golconda, or the pearls of Ceylon. It is an active, useful principle of human action, given us for wise purposes, and should never be wantonly violated.

And it is to prevent this result, that some change is now required in the laws relating to the Sepulchres of the Dead .- They are violated,—the feelings of surviving friends are outraged—the community is excited,—old prejudices are confirmed and new ones are ereated, against the pursuit of a laborious and most necessary study. Our young men, who are laboring to prepare themselves to become eminent in the medical profession, and to succeed to the places now oecupied by Warren, Physic, Chapman, Shattuck, Jackson and other distinguished physicians, when the common destiny of man shall have added their names also to those of Brooks, Eustis, Dearborn, Warren of Bunker Hill, John Warren and a long list of departed merit;—are expatriated and obliged to resort to foreign schools; to the great loss of eapital as well as science at home, -for no other reason than the want of a more liberal, just and enlightened legislation on the subject of Anatomy. When, therefore, the excitement, which exists at times in the community, is appealed to as an argument against legalizing anatomy, it shows that the individuals thus using it, do so without adequate reflection.

Why is it that graves have been recently violated in Milton, Roxbury and in this city?—Not long since in a town on the Connecticut River, and again recently in Vermont?—Why is it that we are horrified with the truly lamentable account of the husband, almost frantic by learning that the remains of her he loved living, and whose memory he still hallows, have been removed from the place where he had deposited them,—that the lifeless form of her whom,

while living,

"He would not suffer even the winds of Heaven to visit too roughly,"

are to be exposed to the rude gaze of strangers. Such things ought not to be; so long as the nature of man remains unchanged—and so long as association retains its power over the affections, no circumstances can excuse or justify them;—no, not even the achievment of the proudest discovery that medical science can boast.

But we again ask why these outrages upon the good feelings and

the moral principles of society?

We answer unqualifiedly: because your law relating to the sepulchres of the dead, operating indirectly on the study of anatomy, offers a premium to immoral, desperate men, to run any risk but that of detection, to obtain subjects for dissection. In an examination before a committee of the British Parliament, an eminent surgeon, Sir Astley Cooper, said he could obtain the body of any man in England, however high in place or influence, for dissection, provided he could pay enough for it.

The same remark here applies with almost equal truth: give

money enough and there may be found desperate men, who would enter any mausoleum, however strongly barred, and rifle its contents. If we would save the community from the most unhappy excitements, the dying from the most painful apprehensions, and secure effectually the sepulchres of the dead, not only from violence, but what is worse, a constant fear that they may be violated, we must revise our legislation on the subject, and devise some mode that, with a strict regard to the equal rights of the community, will provide a supply of subjects for anatomical study.

III. An important consideration here presents itself in the inquiry, who has the greatest interest in facilitating the study of anatomy?

Is it the medical student, or the community; and if the community, is it the few, or the great majority, that have the most special interest?

A little reflection will, we think, render it apparent, that the Medical Profession are the least interested in any change of law to afford facility for the study of anatomy. We, of course, lay aside all considerations of professional pride in making this estimate. But whether anatomy be studied or not, it is certain that the amount of disease will not be diminished—the amount of human suffering may be much increased—accidents will still happen, and if we have not among us physicians and surgeons to practice, according to knowledge, we shall have enough practitioners, to kill according to rule. Physicians, instead of studying facts and observing nature, as she operates both in health and sickness, will learn theories, or make them, according as memory or imagination may predominate in each individual; and although the value of their services would be much less, the amount of their fees would not be reduced.

On the other hand, the community could not be so skillfully or faithfully served, and the lives of many invaluable persons would of necessity be sacrificed for the sake of an illiberal prejudice. rich, the few to whom accident or inheritance or superior sagacity had given ample means of commanding the best services in the United States or Europe, would not suffer in this respect. It would be the middling classes, and especially the laborious and deserving poor, who are from their daily vocations compelled to be exposed to accident, and to those calamities, which particularly require the aid of the surgeon and of precise anatomical science. Expel by your laws anatomical science from the limits of Massachusetts,-like the Egyptians, follow its professors with stones and maledictions, it would be the poor and great majority who would suffer from such fatuity and phrenzy. The man rolling in his wealth, would proceed to New-York, to Philadelphia, to London, or to Paris, to obtain the aid required for his relief, or he would summon and obtain the aid from one of those cities to relieve him here, were he unable to proceed thither; he is able to the pay the price, be it ever so exorbitant. But the man in middling circumstances cannot beggar his family to purchase relief-the poor man were he to sell himself and his family to slavery could not command the means; and they die:they are lost to the community; and lives perhaps far more valuable than that of the rich man, are cut off in a career of usefulness, which might have been prolonged by a liberal policy towards anatomical science. It should ever be remembered, that the laboring classes, in proportion to their numbers, are far more likely than any other class in the peaceful pursuits of life, to require the interference of surgical aid, or of that medical aid which is dependent on a knowledge of Anatomy. They bear heavy burdens, they scale giddy heights, they use at times dangerous tools and instruments, and are in fact more or less at the hazard of their lives in the pursuit of their daily vocations. It is therefore the great majority of the community, embracing the agriculturist, the manufacturer, the mechanic and the mariner, that have a deep, direct and personal interest in the promotion of anatomical science to its highest attainable perfection.

IV. We have no direct law in this Commonwealth upon the subject of Anatomical Dissections. But there are two laws, which have an important, though not an immediate bearing on this subject. In 1815 a law was passed for the protection of the sepulchres of the dead, which punished the exhumation of any dead body, or the knowingly and willfully receiving, concealing or disposing of any such dead body, by a fine of not more than \$1000, or imprisonment

for not more than one year.

Before the passing of this act, several cases at common law were brought before the Supreme Judicial Court: in all of which, where there was a conviction, the party was punished. Where it appeared that the exhumation was for subjects for Dissection, a small fine was imposed. The last case of this kind was against a now eminent physician, then of Essex County, in which several important law points were raised, but the case does not appear to have been reported. Under the statute, there appear to have been receutions, convictions and punishments. A similar statute exists in New-Hampshire and in Vermont. In New-Hampshire the punishment is by fine, not exceeding \$2000, whipping not to exceed 39 stripes, or imprisonment not to exceed one year—all or any of these punishments to be inflicted at the discretion of the Court.

The Vermont statute varies from that of New-Hampshire only in the fine, which is \$1000 instead of \$2000. The other provisions

are the same.*

In the case of Rex vs. Lynn, it was decided by the Court of Kings Bench that to take a body from the grave for any purpose, was a misdemeanor at Common Law. The punishments inflicted by the courts, when the bodies have been taken for the purposes of dissection, have been generally a small fine. But, quite recently, respectable individuals have been tried in England for receiving with intent to dissect, a dead body, knowing the same to have been unlawfully disinterred:—so that it is now said, that scarcely a student or teacher of Anatomy can be found in England, who under the law as now interpreted, is not indictable for misdemeanor. With equal truth it may be said here, that in Massachusetts a student or

^{*} In Connecticut the punishment is by fine not exceeding \$2000 nor less than \$200, and by imprisonment not less than two nor more than five years.

teacher of Anatomy cannot be found who is not indictable under the statute of 1815.

While the law of this Commonwealth is thus severe against the exhumation of dead bodies, which we shall hereafter show, is the only mode now of obtaining subjects for dissection, another law has been passed, by which every practitioner of Medicine is required to obtain a degree at Harvard University, or licence from the Medical Society, before he can maintain an action for any debt for his professional services. The licence or degree is given on an examination, and one of the prerequisites required for this examination is, that the applicant shall have gone through such a course of dissection as shall give him a minute knowledge of Anatomy. So that our laws now involve the manifest absurdity and injustice of requiring, on one page of the Statute Book, certain prerequisites for the honorable practice of the Healing Art, and on another page of the same Statute Book, of prohibiting under severe penalties, the acquisition of the means, by which only these essential prerequisites of Medical education and skill can be learned.

The most deplorable effect of the present condition of our laws is to create a class of men in the community—the exhumators of dead bodies—who are remarkable for desperation of character, and who are by their employment fitted for other violations of the established laws and peace of the community. Were we to imagine an employment best calculated to brutalize the whole man, we should select that of the desperate "body-snatcher;" who with the penalties of the laws and the execrations of society in bold relief before him, still musters enough of courage and desperation to prowl around grave yards in the dead of the night, regardless how much the feelings of society may be outraged, so that he can obtain the means of

securing the price of his inquity. Such a man-

"Is fit for treasons, stratagems and spoils, The motions of his spirit are as dull as night, And his affections dark as Erebus."

The number of this class of men is already considerable among us, and their desperate character may be judged of from the following circumstance, of which your committee have been eredibly informed. They are generally men rendered desperate by their vices. An eminent surgeon of this city, some time since, when the difficulty of obtaining anatomical subjects was at its height, was offered subjects at a given price, by an individual of this character. geon referred to, not knowing his character, accepted his offer and the price was agreed to. But what was the surprise of this eminent surgeon in learning after a few days, that this person had boldly broken into and robbed private tombs of their contents. he ordered him to desist from his impolitic and unjustifiable proceedings, and the individual was soon compelled to abscond, to avoid the This circumstance shows conclusively, that penalties of the law. the present state of the laws, unless anatomy is to be abandoned, offers an indirect inducement to the most deplorable outrages on the feelings of surviving friends, and that so far from protecting the sepulchres of the dead, it indirectly induces their violation. Speaking of the exhumation of the dead, the able report on anatomy, made in 1828, to the British Parliament, remarks: "Nearly the whole of the individuals [persons occasionally employed in raising dead bodies for dissection, are occupied also in thieving, and form the most desperate and abandoned class in the community. If with a view to favor anatomy, exhumation should be allowed to continue, it appears almost a necessary consequence, that thieves also should be tolerated." "It should seem useless, however, with a view to exhumation, to endeavor to execute the existing laws with increased severity, or to enact new and more rigorous ones. interpreting and executing the laws with increased rigor has been, not to suppress exhumation, but to raise the price of dead bodies, and to increase the number of the exhumators. So long as there is no legalized mode of supplying the dissecting schools, so long the practice of disinterment will continue: but if other measures were devised which would legalize, and ensure a regular, plentiful, and cheap supply, the practice of disinterring bodies, and of receiving them, would of necessity, be entirely abandoned." This reasoning applies with full force to the condition of things in this Commonwealth. It is idle to hope to accomplish the protection of the sepulchres of the dead, unless some provision be made for a supply of anatomical subjects. The increased severity of the laws against their violation will only enhance the price of subjects-they will still be obtained. Ten years since the price of subjects was from \$5 to \$10 each; now it is from \$15 to \$20. From 15 to 20 subjects are annually required for the medical school in Boston. The community under the present law, will from time to time be outraged by excitements, painfully distressing; and a class of men will increase among us, who will have learned among the dead, that hardihood of character, and recklessness of legal restraint, which shall make them most dangerous to the living.

The only legalized mode of supplying subjects for dissection is the sentence or order of the Supreme Judicial Court of this State, and of the Circuit Court of the United States, in capital convictions within their respective jurisdictions. The insufficiency of this supply may be inferred from the statements of the Secretary of the Commonwealth, and of the Clerk of the United States District Court. The Secretary of the Commonwealth states, in answer to inquiries addressed him by the Chairman of this Committee, that the whole number of executions or suicides of convicts from January 1, 1800, to December 31, 1830, is but 26, less than one a year. The Clerk of the United States District Court, in reply to like inquiries from the Chairman, states, that from the adoption of the Federal Constitution, and the first organization of the Federal Courts, down to the present time, the whole number of executions and of suicides of convicts, sentenced by that Court in this District, is but fourteen, being about one in three years. The absolute inadequacy of this supply, from either or both of these sources, for any useful purpose, added to the consideration that the infliction of dissection as a part of the sentence in capital cases, has done much to create, and will do much to continue, the prejudice against anatomy existing in the community, has suggested to your committee the expediency of a different provision from that now existing, in relation to the dead bodies of those capitally convicted, so far as the subject is within the control of the State legislation. If dissection be no longer inflicted by our State Courts, as a terror and disgrace,—full and free discussion of this interesting and important topic, may, we hope, soon disabuse the public mind of its worst prejudices in relation to it. Your committee cannot doubt, that the deservedly eminent judge and scholar, who holds the United States Courts in this judicial district, will so far as his important influence extends on this and every other subjeet, be found against unfounded prejudice, and on the side of liberal science and true philosophy. To use again, and to adopt the language of the British Parliamentary Report, "The committee would be very unwilling to interfere with any penal enactment which might have, or seem to have, a tendency to prevent the commission of atrocious crimes: but as it may reasonably be doubted, whether the dread of dissection could be reekoned among the obstacles to the perpetration of such crimes, and as it is manifest that the clause in question must create a strong and mischievous prejudice against the practice of anatomy, the committee think themselves justified in concluding that more evil than good results from its continuance."

V. From the preceding remarks and the facts already stated, the inference is very easy, that in England, the study of Anatomy is much embarrassed by the there established laws. Such is the fact: but the most enlightened politicians and philosophers of that country—second to none other in science, enterprise and intelligence—are now at work preparing the way for a more liberal system.*

In France—a country to which every American heart turns with affection and kindness—and whose recent glorious efforts in the hallowed cause of freedom and the "rights of man," has refreshed our old, and awakened in us a crowd of new attachments;—with a liberality and love of true science, which for the last now almost half century has distinguished her legislation,—has given ample encouragement and facilities to the study of Anatomy. The law upon the subject of taking away dead bodies for any purpose among the ancient Franks, was extremely severe—outlawry and other severe penalties. The system now established at Paris, is the following:

"The administration of all the Hospitals at Paris, since the period of the Revolution, has been confided to a public board of management. The rule at the Hospital is, that every patient who dies shall be attended by a priest, and that, after the performance of the usual ceremonics of the Catholic Church, the body shall be removed

^{*} Since the time of this publication such a system has been adopted by an act of the British parliament. In England, as in Massachusetts, the system gives general satisfaction; anatomical pursuits are no longer prosecuted in secret—an object of public suspicion and odium; secret and illegal means are unnecessary. An English periodical publication observes, that "a state of things of the most odious description has been got rid of; a band of desperadoes, the terror of the public, the detested, though necessary, agents of the anatomical teachers have been dismissed—their occupation is gone."

from the Chapel attached to the Hospital, to the dead room, and there remain for twenty-four hours, if not sooner claimed by the relatives. Bodies may be examined after death, by the medical officers attached to a Hospital, in order to ascertain the cause of death; but may not be dissected by them. A body, if claimed by friends after examination, is sewed in a clean cloth before being delivered to them. If not claimed within twenty-four hours after death, after being enveloped in a cloth in similar manner, it is sent in the manner hereinafter described, to one of the dissecting schools."

"There are no private dissecting schools at Paris, but two public ones: that of the Ecole de la Medicine and that adjoining the Hopital de la Pitic. These are supplied exclusively from the different Hospitals and from the institutions for maintaining paupers, the supply from certain of these establishments being appropriated to one school and that from the remaining establishments to the other."

The distribution of subjects to the two schools is confided to a public officer, the *Chef des Travaux Anatomiques*. He causes them to be conveyed from the Hospital, at an early hour, in a covered earriage, so constructed as not to attract notice, to a building at the schools, set apart for that purpose. They are then distributed by the *prosecteurs* to the students; and after dissection, being again enveloped in cloth, are conveyed to the nearest place of interment."

"The students at the Ecole de la Medicine consist of young men, who have distinguished themselves at a public examination, though the person at the head of the establishment is also allowed to admit pupils to dissect. The school of La Pitie is open to students of all nations, who, on entering themselves may be supplied with as many subjects as they require, at a price varying according to the state in which the body is, from three to twelve franes; priority of ehoice, however, being given to the cleves internes of the different hospitals, and the subjects being delivered to them at a reduced price. lish surgeons were here permitted, till lately, to engage private rooms for the purpose of lecturing on anatomy to students of their own nation, and to superintend their labors in the dissecting room. From the protection and facilities which have thus been afforded to the study of anatomy at Paris, it has become the resort of the medieal students of all nations: THE PRACTICE OF EXHUMATION IS WHOLLY UNKNOWN: and the feelings of the people appear not to be violated."

This system is a philosophical, liberal and truly Christian one:—
it makes the mortal and earthly frame what it ought to be—subservient to the intellectual development, improvement and power of man.
It does not attempt to cast around it a sort of superstitious awe—to
subdue and render the soul subject to a mere form of inanimate nature—in a manner which religion does not require and which reason
cannot justify. At the same time, it does not attempt to destroy—
but carefully respects, those tender and powerful associations, which
are stronger than reason, and which improve the heart and soften the
feelings of the least sensitive breast. Proceeding on the true prineiple, that dissection is only objectionable so far as it may wound the
sensibilities of the surviving friends of the deceased—it sets apart for

this useful and not dishonorable office the remains only of those, who have not a friend or relative to claim the privilege of paying the last sad office to their mortal remains. It thus runs parallel with public sentiment; and at the same time the great interests of science and humanity are advanced—the national glory is brightened by improvements and discoveries of great importance and magnitude, and Paris is made the Grand Emporium of Medical Science, both for Europe and America. The number of students annually licensed in this Commonwealth, is about fifty. What portion of these are obliged to resort to Paris to complete their education cannot be ascertained, but it is known to be a very considerable portion.

Your Committee have thus at length examined and discussed the interesting subject entrusted to their charge. They have gone thus fully into it, because they were aware it was enveloped in the mists of dark prejudice—that the community were too generally uninformed in relation to it; anatomical pursuits having been heretofore, we think, erroneously, conducted sceretly, and been surrounded in the eyes of the great mass of the community with a sort This might do in an age of empirieism; but in an enlightened age, nothing is more unwise for those, who covet a liberal legislation on a matter of liberal science, than to court the appearance of secresy, or of a shrinking from the public gaze. Truth loves the light,—it invites investigation, and, in relation to the subject of anatomy, it only requires to have the public mind put into vigorous action, by proper impulses, and there cannot be a doubt of a result. such as every reflecting mind and lover of science may approve. There is nothing more true than the old maxim, omne ignotum pro magno habetur. Let the public be made acquainted with the subject, and brought into immediate contact with it, and they will understand its true proportions, and no longer regard it as some gigantie monster, possessed of the eruelty of the tiger and the appetite of a

In this report, we have traced the progress of anatomical science from the first and rude attempts of the Greeks, through a slow progress of near 2000 years, when it may be said to have assumed the character of a science, studied and taught upon philosophical princi-We have shown its importance to the physician, as well as to the surgeon; we have farther shown that it is to be learned by dissection only. We have shown that dissection is in every respect a laudable employment, except when so followed as to outrage the feelings of the surviving friends—that a change in the law, operating now indirectly on the practice of dissection, is the only mode of preventing the frequent recurrence of such outrages; that the "working men" in the community are specially interested in affording every facility for the acquisition of a knowledge of anatomy; that the laws now existing in this Commonwealth, exhibit the manifest inconsistency of requiring of every medical practitioner a degree of knowledge, that other provisions of the law render it impossible for him to obtain at home, without a violation of the laws; that exhumators of dead bodies, a class of desperadoes, are in consequence growing up in our community; that independent of the impolicy of making dissection ignominious, by ordering those executed for capital crimes to be dissected, the supply so obtained is wholly inadequate to answer any useful purpose; and we have then shown that for almost fifty years a liberal and philosophical system has been pursued in France on the subject of anatomy and dissections, which has there effectually secured the sepulchres of the dead from violation—saved the feelings of the people from painful excitements and deplorable outrages, and besides making France the grand resort from Europe and America for the attainment of medical and surgical science, has made the amount of medical skill in France far to surpass that of any other nation in Europe or America.

VI. It now becomes the duty of your Committee to present their own conclusions on this whole matter, which they would recommend to the sanction of the General Court. They may be thus

stated: That-

Ist. Anatomy is an important science, whose successful cultivation and improvement is of essential interest to all classes of the population of this Commonwealth:

IId. Dissection for anatomical purposes is highly laudable, and deserving of public encouragement, so far as it can be done without

violence to the feelings of surviving relatives or friends.

IIId. That the Laws of the Commonwealth, which now act indirectly on the study of anatomy, require change, and that the study

of anatomy should be legalized.

I. For this purpose the Committee propose so far to alter the statute of 1815, for the "protection of the sepulchres of the dead" as to authorize the proper municipal authorities in the city of Boston, and in the several towns of the Commonwealth, to deliver to any physician, regularly licensed according to the laws of this Commonwealth, such dead bodies as may be required to be buried at the public expense and which shall not be claimed by any one person, whether kin, or friend or acquaintance, within twenty-four hours from and after death. This permission should be accompanied with restrictions, that the physician so receiving a subject, after he had used it for scientific research, should be bound to have its remains properly interred, with the religious funeral rites, that a Christian people ought to require and must approve.

II. The proviso authorising the Courts to dispose of bodies of ex-

ecuted criminals for dissection should be repealed.

III. That the penalty for disinterring dead bodies or for receiving them, knowing them to have been so disinterred, should be increased, so as effectually to guard against any attempt to transcend those limits for the supply of anatomical subjects, which this enlightened Legislature may designate. These views the Committee have combined in a bill, which is appended to this Report.

Your Committee do not believe that any substantial objections, can be found against such provisions. If it be said, that the idea of being used after death for dissection will harrow up the feelings of those, who are subjects for the public charity while alive, we answer that this objection is wholly unphilosophical; and besides it will not bear close examination. It was once eloquently remarked

to a former Legislature by a distinguised member of the House, that he never could vote to treat poverty as a crime. To this honorable sentiment your Committee unqualifiedly subscribe. To violate it by any enactment would be virtually to disregard a cardinal principle in our Republican System—that "all men are born free and equal"—and it would be farther in disregard of an enlightened self-interest. Laying aside the fluctuations of business and the danger of unforeseen accident: from the changes and divisions of property by descent, the family that is rich now may soon be numbered among the poor. Such events are of frequent occurrence, and it is right it should be so. Lazarus as well as Dives, in the equal distribution of good and evil by Providence, should have each his share of the good things of life. No legislator, therefore, however prosperous, rich or successful now, could agree to any inequitable legislation in relation to the poor without being prepared, ultimately to legislate against, -- if not himself-his successors and im-

mediate representatives.

Of those, who depend on the aid of public charity for support, and who also may be justly ranked among the meritorious poor, reduced by disease, accident or incapacity—all have friends, if not relatives, who feeling a strong and lively sympathy would always seek the opportunity of testifying it by paying to their earthly remains, the last sad office of friendship. All such would be as inviolably protected in the house, appointed for all living,—as the proudest and most powerful of their more fortunate fellow-men. Those, whose bodies would be unclaimed, are the vicious and depraved; and perhaps foreigners,—but probably very few of this class, because an honorable and active feeling of nationality among other resident foreigners would prevent it. The unclaimed bodies of the vicious then, would afford the chief supply of subjects for anatomical dissections. And can an intelligent Legislator, divesting himself of prejudice, refuse to give this aid to the cause of science—and of science too, essentially and most deeply important to society and especially to every "working man" in society? Can it be wrong to make the insensible, material organization of those, who by their own vices had been made, while living, dependent on society for support, to contribute to the well being of society after death? Take for instance the abandoned, shameless prostitute,—who had no respect for herself when living the common trull-of "the general camp, pioneers and all,"-or, the thriftless vagrant—the depraved sot—who has "put an enemy into his lips to steal away his brains," till he has become mentally, morally and physically corrupted and emasculated ;-a living caricature of his own species; -each of them too, by their evil propensities sent prematurely down to the grave-" unwept and unhonored." They shared the benefits, but bore none of the burdens of the social state and of civilization-perhaps they had terrible maladies alleviated and life prolonged by medical and surgical science;supplied at the public expense; -and shall it be denied to the patient professor of that difficult and responsible science to make use of the physical organization of such after death, to enable him to extend his own usefulness and the limits of human knowledge? Religion

says; no. Reason says; no. And shall an enlightened Legislature, giving itself up to the control of prejudice, refuse what both Religion and Reason approve? It will be borne in mind, that every dissection will be made under the eye of a responsible physician;—that every respect will be paid to the prejudices of the public mind—and that religious rites and honorable interment will be performed for the remains of every subject, after it may have answered the purposes of science.

It appears from a statement obtained at the Boston Health Office, that from January 1, 1830, to December 21, inclusive, there were 194 burials at the expense of the City, and also in addition, 88 burials in the Tombs of the House of Industry at South Boston. The number of burials of the same description in other towns of the Commonwealth would be considerable, but less in proportion to the population. There can be no doubt the supply of subjects would be

ample.

Dissection, by being no longer made a part of the sentence of our courts in cases of capital convictions, would gradually lose in the public mind that association, which now, above all others, makes it odious. And above all, exhumation would wholly cease; there would be no need of it—and thus a prolific source of painful disquietude, and of injurious excitement would be effectually closed up in

our happy and generally quiet community.

By giving the proposed facility to dissection, we may hope too, soon to witness here new improvements in the science of Anatomy, which shall redound to the honor of our country as well as to the benefit of the human race. Although England, France and Germany -by the labors of Hunter, Bichat and Boerhaave and their many other great anatomists, have done much to promote anatomical science—much no doubt remains yet to be done;—and if facilities be afforded for its study, we have every reason to believe, that some one of our anatomists may, in the course of events, achieve for himself as enviable a rank in that science, as Franklin held in Natural Philosophy and as Bowditch now holds in the pure Mathematics. The connection between the capillary system and the nervous system, for instance, is suspected, but not yet demonstrated. What a glorious achievment for an American Anatomist to make the demonstration! Descriptive anatomy and comparative anatomy open a wide field for the student, provided he can have the facilities for cultivating it with success.

Your Committee cannot close this report better than by again calling the serious and earnest attention of the Legislature to the intrinsic importance of the subject, they have endeavored to illustrate.

A knowledge of anatomy is necessary to the painter and statuary—the Lawyer and Judge—to the theologian—what more admirably illustrates the wonder, power and goodness of God? It was the contemplation of man, that inspired the Heathen Philosophers with sentiments so noble, as to have led some to suppose that they must have borrowed them from the writings of Inspiration. We cannot more forcibly present this subject to the consideration of the House, than by imagining that the human frame was transparent, and that instead

of the mere outward form and features, we were permitted to contemplate the whole of our wonderful organization—the play of the museles—the vibrations of the nerves—the coursing of the blood the motions of the viscera—the distentions and actions of the brain —and in a word, the whole of that niee machinery in vigorous and constant action—the derangement of the smallest portion of which is felt throughout the whole man. Could any thing be more wonderful?

"Astronomy and anatomy," says Fontenelle, "are the studies which present us with the most striking views of the two greates attributes of the Supreme Being. The first of these fills the mind with the idea of his immensity, in the largeness, distances and number of the Heavenly Bodies: the last astonishes, with his intelligence and art in the variety and delicacy of animal mechanism." The learned, pious and eloquent Paley remarks, "It has been said that a man cannot lift his hand to his head, without finding enough to convince him of the existence of a God. And it is well said: for he has only to reflect, familiar as this action is, and simple as it seems to be, how many things are requisite for the performing of it-how many things which we understand; to say nothing of many more, probably, which we do not: viz. first, a long, hard, strong eylinder to give to the arm its firmness and tension, but which being rigid and in its substance inflexible, ean only turn upon joints: secondly, therefore, joints for this purpose; one at the shoulder to raise the arm; another at the elbow to bend it: these joints continually fed with a soft mueilage, to make the parts slide easily on one another, and holden together by strong braces to keep them in their position; then, thirdly, strings and wires, that is, museles and tendons, artificially inserted for the purpose of drawing the bones in the directions, in which the joints allow them to move. Hitherto we seem to understand the mechanism pretty well, and understanding this, we possess enough for our conclusion: nevertheless, we have hitherto only a machine standing still; -a dead organization - an apparatus. To put the system in a state of activity; to set it at work; a further provision is necessary, viz. a communication with the brain by means of nerves. We know the existence of this communication, because we can see the communicating threads and can trace them to the brain: its necessity we also know; because, if the thread be cut, if the communication be intercepted, the musele becomes paralytie; but beyond this we know little: the organization being too minute and subtle for our inspection."

"To what has been enumerated as officiating in the simple act of a man's raising his hand to his head, must be added, likewise, all that is necessary and all that contributes to the growth, nourishment and sustentation of the limb; the repair of its waste, the preservation of its health, such as the circulation of the blood through every part of it, its lymphatics, exhalants, absorbents. All these share in the result, join in the effect, and how all these or any of them came together without a designing disposing Intelligence, it is impossible to

answer."

Such is the religious and true philosophy of that study of man,

which is now commended to the patronage and countenance of an intelligent Legislaturc. Wonderful as is inanimate nature in her works; in combination or in detail, beautiful and sublime as they are—they are inferior—far inferior, to the grand master-piece of the creation, man. "God created man in his own image-in the image of God created he him-male and female ereated he them." "How graceful his body! How sublime the glance of his eye! How vast his reasoning, his inventive and his ruling faculties! Contemplate his exterior: -ercct, towcring and beautcous. How does the present but concealed Deity, speak in his countenance with a thousand tongues. God of perfection! How supremely, how benevolently hast thou displayed thyself in man! Survey his soul beaming, his divine eountenance: the thoughtful brow, the penetrating eye, the spirit breathing lips, the deep intelligence of the assembled features! How they all conspiring speak! What harmony! A single ray including all possible colors! the picture of the fair, immeasurable mind within!"

It is the study of man, in all his wonderful adaptations of eause to effect, of means to ends—the study of this noblest work of the Divine Intelligence, and as the necessary consequence, new conquests in the realms of true science and new discoveries for curing or alleviating the ills that "flesh is heir to"—that are by your committee most respectfully, but carnestly and repeatedly commended to the patronage and protection of an enlightened Legislature; and your committee fully believe, that whatever provisions on this interesting subject the Legislature may adopt, they will receive the support and countenance of the intelligent and liberal community, whom

it is our high privilege to represent.

And is not an improved and liberalized legislation, in favor of anatomical science, due to the high character of our constituents for liberality and intelligence. Massachusetts has ever been foremost in overcoming prejudice and in pressing forwards in the onward march of improvement. The men, who first settled Massachusetts, were far above the religious and political prejudices of their age. The men of Massachusetts, in the perils of the revolution, were ever foremost in battling for the cause of freedom, and in resisting those prejudices in favor of the rights of the British Monarch, which made some of the best hearts in America quail and shrink from an irrevocable "Declaration of Independence." In the constitution of Massaehusetts, the encouragement of "Arts, Seienees, and all good literature" is expressly declared to be a part of the duty of the legislature. When therefore, it is apparent that a science, perhaps more deeply than any other, interesting to every portion of the community, is suffering and languishing for the want of a liberal legislation, is not the honor of the Commonwealth, as well as the general interests of seience, civilization and humanity, concerned, that the Legislature should promptly interfere, to extricate this important branch of human knowledge from the trammels and ineumbranecs, which prejudiee has placed around and upon it?

All of which is respectfully submitted. By order of the select committee.

JOHN BRAZER DAVIS, Chairman.

REMARK.

The preceding Report was submitted to the House of Representatives, accompanied with a Bill in form for a public Act. In the House this Bill received several slight amendments. The following is a copy of the Bill as amended, which passed both branches of the Legislature, by a vote almost unanimous.

Commonwealth of Massachusetts. In the year of our Lord One Thousand Eight Hundred and Thirty-one.

An Act more effectually to protect the Sepulchres of the Dead, and to legalize the Study of Anatomy in certain Cases.

Sect. 1. Be it enacted by the Scnate and House of Representatives, in General Court Assembled, and by the authority of the same, That if any person not being authorized by the Board of Health, Overseers of the Poor, or Selectmen, in any town of this Commonwealth, or by the Directors of the House of Industry, Overseers of the Poor, or Mayor and Aldermen, of the City of Boston, in said Commonwealth, shall knowingly or wilfully dig up, remove or convey away, or aid and assist in digging up, removing or conveying away, any human body, or the remains thereof,—such person or persons so offending, on conviction of such offence in the Supreme Judicial Court of this Commonwealth, shall be adjudged guilty of felony, and shall be punished by solitary imprisonment for a term not exceeding ten days, and by confinement afterwards to hard labor for a term not exceeding one year; or shall be punished by a fine not exceeding two thousand dollars, to enure to the benefit of the Commonwealth, and by imprisonment in the common jail, for a term not exceeding two years at the discretion of the Court, according to the nature and aggravation of the offence.

Sect. 2. Be it further enacted, That if any person shall be in any way, either before or after the fact, accessary to the commission, by any person or persons, of the offence described in the first section of this act, such person or persons shall be adjudged and taken to be principals, and shall be, on conviction in the Court aforesaid, subject to the same punishments and forfeitures as are in said first

section provided.

Sect. 3. Be it further enacted, That from and after the passing of this act, it shall be lawful for the Board of Health, Overseers of the Poor, and Selectmen, of any town in this Commonwealth, and for the Directors of the House of Industry, Overseers of the Poor, and Mayor and Aldermen, of the City of Boston, in said Commonwealth, to surrender the dead bodies of such persons, except town paupers, as may be required to be buried at the public expense, to any regular physician, duly licensed according to the Laws of this Commonwealth—to be by said physician used for the advancement of anatomical science; preference being always given to the Medical Schools that now are or hereafter may be by law established in this

Commonwealth, during such portions of the year as such schools, or either of them, may require subjects for the instruction of Medical Students: - Provided always, That no such dead body shall in any ease be so surrendered, if, within thirty-six hours from the time of its death, any one or more persons, claiming to be kin, friend or acquaintance to the deceased, shall require to have said body inhumed; or, if it be made to appear to the Selectmen or Overseers of the Poor of any town in this Commonwealth, or to the Mayor and Aldermen or Overseers of the Poor of the City of Boston, that such dead body is the remains of a stranger or traveler, who suddenly died before making known who or whence he was: but said dead body shall be inhumed, and when so inhumed, any person disinterring the same for purposes of dissection, or being accessary, as is described in the second section of this act, to such exhumation, shall be liable to the punishments and forfeitures in this act respectively provided: -And provided further, That every physician so receiving any such dead body, before it be lawful to deliver him the same, shall in each case give to the Mayor and Aldermen of the City of Boston, or to the Selectmen of any town of this Commonwealth, as each ease may require, good and sufficient bond or bonds, that each body by him so received, shall be used only for the promotion of anatomical science: that it shall be used for such purposes only in this Commonwealth, and so as in no event to outrage the public feeling; and that, after having been so used, the remains thereof shall be decently inhumed.

Sect. 4. Be it further enacted, That from and after the passing of this act, it shall be lawful for any physician, duly licensed according to the Laws of this Commonwealth, or for any medical student, under the authority of any such physician, to have in his possession, to use and employ, human dead bodies, or the parts thereof, for the

purposes of anatomical inquiry or instruction.

Sect. 5. Be it further enacted, That nothing in this act shall be so construed, as to give to the Board of Health, Overseers of the Poor, or Selectmen, of any town in this Commonwealth, or to the Directors of the House of Industry, Overseers of the Poor, or Mayor and Aldermen, of the City of Boston, in said Commonwealth, any power to license the digging up of any dead human body, or the remains thereof, other than was possessed by them before the passing of this act, or is given them by the third section of this act.

Sect. 6. Be it further enacted, That the Act passed March 2, 1815, entitled "An Act to protect the Sepulchres of the Dead," and also all other Acts, or parts of Acts, contravening the provisions of

this Act, be and the same hereby are repealed.

Approved by the Governor, Feb. 28.







